# A COMPARATIVE STUDY OF YAJURVEDIC SIKSAS

A thesis Submitted to the Utkal University for the Degree of Doctor of Philosophy in Sanskrit

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by

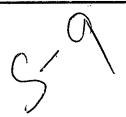
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या ते धार्मानि पर्माणि याऽवमा या मध्यमा विश्वकर्मन्नुतेमा शिक्षा सर्खिभ्यो ह्विषि स्वधावः स्वयं येजस्व तुन्वं वृधानः

शुक्लयजुर्वेद: (१७/२१)

yā te dhāmāni paramāṇi yā'vamā

yā madhyamā viśvakarmannutemā /
śikṣā sakhibhyo haviṣi svadhāvaḥ

svayam yajasva tanvam vṛdhānaḥ //
(Śukla-yajurvedaḥ, XVII-21)

अथ शिक्षां प्रवक्ष्यामि ह्यमोघानन्दकारिणीम् । यस्याः श्रवणमात्रेण सर्वत्र विजयी भवेत् ॥ (अमोघानन्दिनीशिक्षा-१)

atha śikṣām pravakṣyāmi hyamoghānandakāriṇīm /
yasyāḥ śravaṇamātreṇa sarvatra vijayī bhavet ||
(Amoghānandinīśikṣā-1)

#### r. (Mrs.) Prativa Manjari Rath A., M.Phil., Ph.D., ertificate Course in German Language



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#### Certificate

Certified that the thesis entitled "A Comparative Study of Yajurvedic Śikṣās" submitted for the award of Degree of Doctor of Philosophy in Humanities (Sanskrit) to the Utkal University, Bhubaneswar embodies the result of the bonafide research work carried out by Mrs. Manaswini Sarangi (Panda), L.L.B, Advocate (Income Tax) under my guidance and supervision. It is also certified that the title of the thesis is within the area of research. No part of this thesis has been submitted for any other Degree or Diploma. The thesis has fulfilled the standard as per the regulation of Utkal University.

Prativa Manjari Rath

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#### Declaration

I do hereby, declare that this thesis entitled - "A Comparative Study of Yajurvedic Śikṣās" submitted for the fulfillment of Ph.D. examination in Sanskrit, under the guidance of Dr. (Mrs.) P.M. Rath, Reader, P.G. Dept. of Sanskrit, Utkal University, Vani Vihar, has not been submitted before or published elsewhere for any degree or diploma. Any help or source of information which has been availed in this connection is duly acknowledged.

Manaswini Sarang 8.8.2005

Manaswini Sarangi

#### Preface

Often a small idea precedes a great achievement and a wild dream lays the foundation of a dazzling reality. The same idea holds true for me too. After my marriage, perhaps in the year 1990, it all started moreover a decade back, while I was having an informal talk with my father "Shri Rangadhar Sarangi (Retd. Reader in Sanskrit) when he told about his academic interest in the field of vedic lore. He suggested me this topic "A Comparative Study on the Yajurvedic Śikṣā". Though it was very difficult and a tough job for accepting this topic for my research, still I accepted it without any hesitation. So the journey started with an informal chatting with my father and had to end in serious academic pursuit in the libraries and study rooms.

To begin with, my father suggested the name of Dr. K.C. Acharya (Professor of Sanskrit) to be my guide. As a renowned scholar, I approached him to grace me by accepting my request. He gave me priceless advice about how to proceed and how to make things comfortable. He recommended many books for my reference and I was doing well under his active guidance. At that moment, I had to drop the idea of staying in Bhubaneswar because my husband got transferred to New Delhi. Initially I got depressed, by his sudden transfer, but gradually it acted as a blessing in disguise as I availed the opportunity of accessing the library of Delhi University. I also interacted with some of the professors there and made ample progress in my work. But another change of place was really shocking, when my husband got again transferred to Satara, a city near Pune. I was slightly upset but this proximity to Pune also helped me a lot as I collected some important books of different authors like Yugal Kishore

Vyas, Amarnath Sastri, Shri Pattabhiram Sastri, Siddhesvara Verma and renowned scholars like Macdonell, Max-Muller and Winternitz. Thus I moved towards my goal slowly and steadily. But all of a sudden, disaster struck me when I heard the untimely demise of my guide Professor K.C. Acharya. It was a massive blow to my efforts and I almost gave up the hope of finishing my work. For a considerable period everything was in cold storage and I had more or less accepted the failure with a smile.

But destiny had better things in store for me. Oneday I got caught with the idea of requesting Mrs. Prativa Manjari Rath, presently Reader in Sanskrit, Utkal University. She rekindled interest in me to take up the unfinished task under her supervision. Her active guidance and inspirational approach was instrumental in the eventual completion of my research work. Ultimately I must admit that unless something is preordained it never happens. So definitely, I had "His blessing" all through and it was probably "His desire" that someday I would succeed in my effort.

Due to my guide's untiring efforts and sincere co-operation. I managed to arrange each and every chapter systematically. The introductory portion describes about the significance, the plan and presentation of the study of the  $Siks\bar{a}$ .

Chapter one describes about the definition, chronology, versification and complexity of  $Siks\bar{a}s$ 

Chapter two mainly gives stress on content analysis of Śikṣās belonging to the Rk, Sāma & Atharva vedas, along with the general Śikṣās.

Chapter three deals with the survey of *Kṛṣṇa Yajurvedic & Śukla Yajurvedic Śikṣās*.

Chapter four describes comparative analysis of Śukla Yajurvedic Śikṣās, their similarities & dissimilarities, and the peculiarities of Yajurvedic Śikṣās.

Chapter five discusses about *raṅga-nāda-nāsikya* and *yama* letters in *Yajurvedic Śiksās* followed by the summary of findings.

This thesis is an instrument for every vedic student as it has spared more stress on pronouncing vedic words with utmost accuracy. I shall consider my labour rewarded if this work goes ahead arousing interest in the minds of the scholars engaged in svādhyāya as well as in vedic research. This thesis which is now being submitted to the Utkal University for the Degree of Doctor of Philosophy will be proved fruitful if it is appreciated by the learned critics and scholars.

Manaswini Sarangi 8.8.2005 Smt. Manaswini Sarangi

## Acknowledgement

This thesis is an attempt to study the Yajurvedic Śikṣās with special reference to Śukla Yajurveda and to stress upon their peculiarities on pronouncing the vedic words with utmost accuracy. It is my pious duty to acknowledge the help received from various scholars, sources and persons.

I express my most sincere gratitude to my Revered Guide Dr. (Mrs.) Prativa Manjari Rath, (Reader) P.G. Department of Sanskrit, Utkal University, Vanivihar, under whose guidance and thorough supervision this thesis has been prepared. In spite of many other preoccupations, she has spared her time for me to prepare this thesis along with suggestions, modifications and corrections. Indeed she was kind enough to anchore my ship, which was in troubled waters, helped it to be steady and steered it to the source safe and successful.

I owe a great deal to all my teachers at Utkal University (Vanivihar) namely Prof. P.K Mishra, Prof. G.K.Dash, Prof. R.N.Panda, Dr. R.M.Dash, Dr. (Pt.) D.Tripathy who provided serious academic counselling and took active interest in my research. To begin with Prof. K.C. Acharya played a vital role in supervising the thesis at the beginning. I shall always remain grateful to him. At this stage I pray for the blessing of the departed soul. I also thank Dr. R.V. Joshi, the then Professor of Delhi University, who helped me a lot at the intial period.

Apart from my own efforts, I am indebted to many persons who have contributed directly or indirectly towards making this dream come true.

While my father Sri Rangadhara Sarangi (Reader in Sanskrit)

remained the initial source of inspiration, my interest and enthusiasm was sustained and nurtured by all my near and dear ones. I owe my deep sense of gratitude to my father Sri Rangadhara Sarangi for not only initiating me in the sanskrit studies but also for helping me a lot in my research work.

I am really indebted to my mother Mrs. Kiranbala Sarangi and all my three brothers and sister for giving me emotional support. I am deeply obliged to my father-in-law (late) Mr. F.C. Panda and Radharani Panda for sharing my problems regarding the matter of research. Both my kids Gitun and Situn helped me a lot. I am grateful to Baman Charan Parida Proffessor in library science, Mr. B. Swain and Mrs. P. Swain for helping me a lot in the renewal of my work.

However a special word of thanks to my husband Mr. Udaya Sankar Panda (G.M) Telecom who has always been there when it mattered. He has always been a very supportive and encouraging counsellor for me from the beginning to end.

I am alone responsible for the mistakes, shortcomings and limitations that might have been there in this thesis for which I crave the indulgence of the learned scholar.

Last but not the least, I express my thanks to Sri Manoj Kumar Samantara for having efficiently processed this thesis through computer.

Date: 8.8.2005

Manaswini Sarangi Smt. Manaswini Sarangi

#### **Abbreviations**

Amogh. Śik. : Amoghānandinī Śikṣā

AV. : Atharvaveda

Ind. Stu. : Indische Studien

J.R.A.S. : Journal of Royal Asiatic Society

KYV : Kṛṣṇayajurveda

Laghu Madh. Śik. : Laghu Mādhyandina Śikṣā

Lom. Śik. : Lomaśī Śikṣā

Māṇḍ. Śik. : Māṇḍavī Śikṣā

M.I.L. : Modern Indian Language.

M.W.D. : Monier William's Dictionary

MSS. : Manuscripts

Mādh. Śik. : Mādhyandinī Śikṣā

Nār. Śik. : Nāradīya Śikṣā

Pān. Śik. : Pāṇinīya Śikṣā

Pān. Ś.S. : Pāṇinīya Śikṣā Sūtra

Pāri Śik. : Pāri Śikṣā

Prā. Prad. Śik. : Prātiśākhya Pradīpa Śikṣā

Pārā. Śik. : Pārāśarī Śikṣā

Rk. Prāt. : Rkprāti śākhya

Rk. Tr. : Rk Tantra

RV. : Rgveda

Sik. : Sikṣā

ŚYV. : Śukla Yajurveda

ŚS. : Śikṣā Saṅgrahaḥ

**S**at. Brā. : **S**atapatha Brāhmaṇa

Śl. : Śloka

Śodasa. Śik. : Śodasaslokī Śikṣā

Sva. La. Pa. Šik. : Svarabhakti Lakṣaṇa Pariśiṣṭa Śikṣā

Taitt. Prā. : Taittirīya Prātiśākhya.

Tai. Sam. : Taittirīya Samhita

Va. Pra. Śik. : Varṇaratnapradīpīkāśikṣā

Vāj. Prā. : Vājasaneyīprāti śākhya.

VSM. : Vājasaneyī-samhita-mādhyandina

Yāj. Śik. : Yāj ñavalkya śikṣā

YV. : Yajurveda

Vāś. Śik. : Vāśiṣṭhī śikṣā

Vyā. Šik. : Vyāsa śikṣā

## Transliteration

|            |           |            |      |             | •                            |
|------------|-----------|------------|------|-------------|------------------------------|
| <i>a</i> ; | अ         | th;        | ठ्   | <b>પ</b> ્; | गुम् - अनुस्वार of one       |
| ā;         | आ         | д;         | ड्   |             | mora                         |
| i;         | इ         | фh;        | ढ्   | <b>≌</b> ;  | रङ्ग                         |
| Ī;         | ई         | ij;        | ण् . | ිි;         | दीर्घ-अनुस्वार               |
| <i>u</i> ; | उ         | t;         | त्   | ÷ ;         | अर्धन्युब्ज & पूर्णन्युब्ज — |
| $ar{U}_i$  | ऊ         | th;        | थ्   |             | अनुदात्तः                    |
| ŗ,         | <b></b>   | d;         | द्   | ;           | स्वरित:                      |
| <i>ļ</i> ; | लृ        | dh;        | ध्   | 'L' or ' '  | मध्यवर्तीस्वरितः             |
| e;         | <b>ए</b>  | n;         | न्   | <del></del> | ,                            |
| ai;        | ऐ         | <i>p</i> ; | प्   |             |                              |
| 0;         | ओ         | ph;        | फ्   |             |                              |
| au;        | औ         | b;         | ब्   |             |                              |
| am;        | अं        | bh;        | भ्   |             |                              |
| аḥ;        | अ:        | m;         | म्   | •           |                              |
| k;         | क्        | у;         | य्   |             |                              |
| kh;        | ख्        | r;         | Ţ    |             |                              |
| g;         | ग्        | l;         | ल्   | •           | •                            |
| gh;        | घ्        | v;         | व्   |             |                              |
| і;         | ङ्        | Ś;         | श्   |             |                              |
| c;         | च्        | Ş;         | ष्   |             |                              |
| ch;        | छ्        | s;         | स्   |             |                              |
| j;         | <b>ज्</b> | h;         | ह्   |             |                              |
| jh;        | झ्        | kṣ;        | क्ष् |             |                              |
| ñ;         | অ্        | tr;        | त्र् |             |                              |
| ţ;         | ट्        |            |      | •           |                              |
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## INTRODUCTION

#### INTRODUCTION

#### 0.0 Sikṣās: as a class of literature

Śikṣās belong to a class of Vedic texts known as vedāṅga literally which means limb or auxilliary part of the Veda. These are essential for correct interpretation of the vedas. As per the popular verse of the Pāṇinīya śikṣā, the śikṣā forms the nose of the vedapuruṣa or veda incarnate:-

chandaḥ pādau tu vedasya hastau kalpo tha paṭhyate /
jyotiṣāmayanaṁ cakṣurniruktaṁ śrotramucyate //41
śikṣā ghrāṇaṁ tu vedasya mukhaṁ vyākaraṇaṁ smṛtam /
tasmāt sāṅgamadhītyaiva brahmaloke mahīyate //42

The real study of language started in the *vedānga* period. Of the six *vedāngas*, four are related with the study of nature of *vāk* i.e, speech and these four are- *śikṣā*, *nirukta*, *vyākaraṇa* and *chandas*. In the *śikṣā* literature the analysis of phonetics of alphabet, in the *Nirukta*, the analysis of word meaning, in the *vyākaraṇa* the syntactical analysis of the sentences and in the *chandas* the analysis of moras and accents are specifically dealt with. The subject matter of *śikṣās* as described in the *Taittirīya* Āraṇyaka is varṇa or alphabet such as a, ā, i, ī etc., svara or accent such as *udātta* etc, *mātrā* or quantity such as *hrasva*, *dīrgha*, *pluta*, etc., *bala* or the place of articulation and the articulatory process of sounds, *sāma* or tempo of pronunciation and *santāna* which refers to the sound junction. On the whole, the *śikṣās* deal with phonetics of the Vedas with minutest details. There are a number of authors of the *śikṣās* composed at different times. Most of them are less related to a particular veda,

since the rules framed by them indiscriminately apply to all the Vedas. Among the general Śikṣās belonging to all the Vedas the foremost are  $ar{A}$ pi śal  $ar{i}$ ya śik $ar{s}$ ā s $ar{u}$ tra, Pāṇin $ar{i}$ ya śik $ar{s}$ ā s $ar{u}$ tra, Kauṇḍinny $ar{a}$ yana śik $ar{s}$ ā s $ar{u}$ tra etc. Yet there are some which belong to and are concerned with the phonetics of a particular veda. For instance Śaiśirīya śiksā and Śaunaka śikṣā belong to RV, Yājñavalkya śikṣā, Varṇaratnapradīpikā śikṣā, Prātiśākhyapradīpa śikṣā etc. belong to ŚYV, Cārāyanīya śiksā, Bhāradvāja śikṣā, Vyāsaśikṣā, Kauhelīya śikṣā, Sarvasammataśikṣā, Pāriśikṣā, Kaṇḍinya śikṣā etc. belong to KYV. Lomaśī śikṣā. Gautamī śikṣā, Nāradīya śikṣā etc. belong to the SV and Māndukya śikṣā, Var napaṭala śikṣā etc. belong to the AV. Many of these śikṣā texts are γ mere catalogues of certain sounds of the Vedas and contain very little matter of general vedic linguistics and certainly they were prepared toinsure accuracy in vedic pronunciation, to retain the vedic texts intact and to facilitate vedic research work. Among the above śikṣā texts the maximum number belongs to SYV.

#### 0.1. Need for the study

Now-a-days when meaning analysis and context analysis of vedic texts have gained importance in India and abroad in the field of vedic studies than the traditional chanting of the Vedas, then the question comes to one's mind whether the vedic student or researcher possesses requisite prior knowledge or equipped with the phonetic training which is a desideratum for not only correct chanting of *mantras* but also for correct analysis of the meaning. The vedic study of the present century is becoming more popular and many international and national conferences are being organised in India as well as abroad on vedic interpretations and themes. The modern researcher's interpretations are based on commentaries of

Sāyaṇācārya, of Ācārya Skandaswāmin, Swami Dayānanda Sarasvati, Sri Aurovindo, English Transations by H. H. Wilson, R.T.H. Griffith, Louis Renou, Oldenberg, Macdonell, Bohtlingk and Roth and so on and so forth. Of course this is a positive progress in the history of vedic interpretation, which was not so flourishing before the 19<sup>th</sup> century A.D. Prior to the 19<sup>th</sup> century, in the ancient days vedic studies were concentrated mostly to the learning of vedic mantras by heart only through traditional system of learning. Intelligent and hardworking students used to learn by heart the *saṃhitā* texts along with the *Brāhmaṇa* and *vedāṇga* texts as well as the *vikṛti pāṭhas*. This tradition was really amazing though difficult. But now-a-days a student is initiated in the vedic studies without going deep into the *vedāṇga* texts, specially the Śikṣā, which is the most important *vedāṇga* for reciting the *mantras* and analyzing the meanings. As declared in *Pāṇ. śik*.

"mantro hīnaḥ svarato varṇto vā

mithyāprayukto na tamarthamāha /
sa vāgvajro yajamānaṁ hinasti

yathendraśatruḥ svarato' parādhāt //"

(Pāṇ.śik, verse-52)

YV has been divided into two main branches i.e,  $\acute{s}ukla$  and  $k_I s, na$  and they were further divided into fifteen and eighty six  $\acute{s}akh\bar{a}s$  respectively. Out of the fifteen  $\acute{s}akh\bar{a}s$  of  $\acute{S}YV$  only two  $K\bar{a}nva$  and  $M\bar{a}dhyandina~\acute{s}akh\bar{a}s$  are now available. The Brahmins inhabiting now in Orissa belong to the various  $\acute{s}akh\bar{a}s$  or branches of the four vedas, the majority of whom belong to the  $K\bar{a}nva~\acute{s}akh\bar{a}$  of  $\acute{S}YV$ . It is ascertained by the vedic scholars that the  $K\bar{a}nva$  in the beginning were living in North-West region of India but later on migrated to the east and settled down

on the banks of the rivers Gomatī, Saraju, Narmadā, Kṛṣṇā, Godāvarī in "Karnataka" to which the territories of ancient Orissa were extended in early historic peried. The vedic education is flourished in Orissa till today, the foundation of which was laid on a strong footing during the Somavamśī period. Evidences of vedic sacrifices were to be found during the Sailodbhavas which might be necessitating vedic studies and practice of *Karmakāṇḍa* at the initial stage, but made a philosophical and interpretative study in the later period, finding it's maturity during the Somavamśī rule.

Though the Bhaumakaras were patronising the Buddhist religion yet they could not ignore the importance of the Brahmin teachers indulging in vedic study and remaining at the land of Brahmin villages. Necessary examples are provided by several copper plate grants of the *Bhanjas*, *Dhavalas and Kādambas*. The *kādambas* were flourishing along with the Ganga Monarch, who ruled immediately after the Soma dynasty and had patronised vedic education in various ways. Thus the vedic education is flourishing in Orissa specially relating to *YV* since long time. So it is highly imperative to have a sound knowledge of the phonetic specialities relating to the *YV*. The analysis of *Yajurvedic Śikṣās* specially of śukla *Yajurvedic Śikṣās* will certainly throw much light on the peculiarities of the *mantras* of *YV* and specially of the *ŚYV*, as stress is laid upon in this work on the analysis of śukla yajurvedic śikṣās alongwith the other *Śīkṣās*.

#### **0.2.** Significance of the study

At the outset the question which comes to the mind in the context of vedic studies is- that, is it sufficient to understand and grasp the meaning of YV by going through the commentaries and translations or by traditional

way of vedic chantings? The grammer, the vocabulary and the process of recitation of vedic texts have their own prestine purity and uniqueness conducive to the proper understanding of the Vedas. For a clear knowledge of vedic language, the ancient seers very conscientiously and rigorously planned to preserve, guard and protect the Vedas by devising the śikṣā literature which are like unaccessible mighty high walls erected around the forts of vedic wisdom. Among the six vedāngas, śikṣā occupies one of the most prominent positions to handle and take care of the word and meaning context of the vedic mantras. Along with the phonetic analysis of vedic mantras, the ācāryas of Śikṣā have framed the directives for the learning of vedas which are effectively contributive not only to mastering the vedic texts but also to have a sound knowledge in the field of vedic literature. In the Śikṣās, the most significant point which has been emphasised is that of proper, accurate, accented pronunciation of the vedic hymns.

#### Thus Vyāsa Śikṣā states:

suvyaktasvaro dhairyam tatcittatvam caturgunah/ etadyuktah pathedvedam sa vedaphalamaśnute // verse 503

suvyaktam or the recitation of mantras according to phonetic rules, susvara refers to pronouncing vedic hymns in a good voice with all the accents of pronunciation, dhairyam means undivided attention and concentration and taccittatvam refers to one's completely being absorbed in vedic recitation. These are essential qualities for vedic studies and the ācārya must very carefully watch over the possessiveness of all these four in adequate proportion in the vedic student. The Pārā. Śik. of ŚYV offers the horrors of a hell named kumbhipāka for those who mispronounce the vedic mantras.

aśuddhapaṭhanāccaiva naiva mokṣaṁ prapedire /
tasmātsarvaprayatnena śuddhapāṭhī bhaveddvijaḥ /
anyathā nirayaṁ yāti kumbhīpākaṁ ca dāruṇam // 3

For accomplishing right pronunciation several indigeneous tips are also enjoined as brushing the teeth by the sticks of specific trees which makes the teeth strong and also prepares the mouth cavity with their herbal sap far more effective for right pronunciation. Not only this but also recipes are prescribed for increase of memory and intellect. The physical and mental dispositions of the student are also directed for vedic recitation. Vāj. Sik. states that the vedic student must be of a pleasant mood, firm mind and self-restraint personality. A stable physical and psychological state is necessary for vedic studies.

Thus without proper command on the texts, vedic studies including both the recitation and interpretation are but insufficient. The plans and directives of learning of veda as found in  $Siks\bar{a}$  texts impresses upon the pupil, the real essence and grand majesty of vedic chanting which is very significant for learning the Vedas.

#### 0.3 Plan and presentation of the study

The present study consists of five chapters as follows besides the Introduction and Conclusion. The Introduction purports to outline the following points such as need for the study, significance of the study, source materials, and deals with methodology adopted, scope of the study, scheme of presentation and limitations of the study.

<sup>1.</sup> yajñavalkya śikṣā, verses 34 & 35

<sup>2.</sup> triphalām lavaṇāktena bhakṣayecchiṣyakaḥ sadā / kṣīṇamedhā jananyeṣā svaravarṇakarī tathā //

<sup>3.</sup> Vājasaneyī śikṣā, verses 20-21, 25

First chapter deals with meaning & significance of Śikṣā as a class of vedic literature, concept of Śikṣā literature, collections of Śikṣā texts, chronology of Śikṣā texts, Śikṣā as compared with the prātiśākhyas enumeration of Śikṣās in general and Śikṣās belonging to various Vedas specially listing the Śikṣās of ŚYV.

Second chapter is a survey of the  $\dot{S}ik_{\dot{s}\bar{a}s}$  belonging to various vedas as of RV, SV and AV.

Third chapter deals with the survey of Śikṣās of YV in general. This chapter is divided into two parts and part one is devoted to the Śikṣās of KYV and part two belongs to Śikṣās of ŚYV.

Fourth chapter is a comparative analysis of SYV where an attempt has been made to present a comparative analysis of  $Sik s \bar{a}s$  belonging to SYV. This analysis has been done on the basis of points of similarities in  $SYV Sik s \bar{a}s$ , points of differences and thirdly some specific peculiarities of injunctions or rules found in the  $Sik s \bar{a}s$  of SYV.

Fifth chapter describes about the importance of ranga, nāda, nāsikya, yama in ŚYV. The vowel length of ranga, difference between ranga and anusvāra, varieties of ranga, oral gestures in the pronunciation of ranga etc. have been dealt with in the first section of this chapter. Definition of nāda and nāsikya varnas, and difference between nāda and nāsikya are some of the significant points in the second section and in the third section the concept of yama letters and their process of pronunciation etc. have been dealt with.

The concluding part presents a report on the necessity of SYV  $Sik s\bar{a}s$  for the correct chanting of SYV and for the purpose of research more efficiently with a humble suggestion that the  $Sik s\bar{a}$  texts should be

introduced in the syllabus of modern Sanskrit Degree Studies as well as steps must be taken to propagate this knowledge through the traditional  $\bar{a}c\bar{a}ryas$  for the study of comparative linguistics as well as for the software programming of phonemic in the computer and for the study of origin and evolution of alphabet. The conclusion also gives a series of pictures about the position of recitation of vedic *mantars*.

#### 0.4. Method of study

The available printed Śikṣā texts have been taken into account and the method adopted is from a general review of other Śikṣās to the particular review and analysis, of ŚYV Śikṣās. The study attempts to elicit the authorship, the chronology and the content analysis of Śikṣās of RV, SV, AV and KYV, the comparative analysis of the Śikṣās of ŚYV. While proceeding through the comparative analysis, the texts of different Śikṣās have been studied and certain concepts have been taken for comparative analysis.

#### 0.5. Source materials

The data for the present study are collected more from primary sources than from secondary sources.

(a) Primary sources: For the survey and analytical study of different Śikṣā texts, the Śikṣāsaṁgraha edited by Ramprasad Tripathy, Sampurnananda University, has been chiefly taken into account. Besides this, various śikṣā texts have also been consulted as the Śikṣāsaṁgraha is mainly an edition of ŚYV Śikṣās. Separate editions of the Nāradīya Śikṣā, the Vyāsa Śikṣā etc. have been consulted.

(b) Besides these, some analytical studies on śikṣā texts have been consulted. The Critical Studies in the Phonetic Observations of Indian Grammarians by Siddheswar Varma, Śikṣā svarūpa vimarṣah by Rammurti Chatruvedi, Phonetics in Ancient India by W.S. Allen etc. are the significant studies in this regard.

Besides these, related research articles have also been taken into account for analysis.

#### 0.6. Objectives of the study

The followings are the objectives of the study:

- (a) To identify the *Yajurvedic Śikṣās* and to explore their peculiarities.
- (b) To determine the rules prescribed under different headings and their application in *SYV* text.
- (c) To analyse and compare the rules of different Śikṣā texts.
- (d) To examine whether these rules are practically followed today in vedic chantings or not.

#### 0.7. Scope and coverage of the study

The study covers a wide range of Śikṣās starting from RV to AV with a special study of Yajurvedic Śikṣās. Moreover the comparative analysis has been done only of twentyfive ŚYV śikṣās and during such analysis, along with the peculiarities of 'ya' pronounced, as 'ja', va pronounced as 'ba', anusvāra pronounced as 'gum', specialities on the raṅga, nāda, nāsikya etc, the similarities and differences have also been taken into account.

The enumeration of *varṇas sandhi*, *svara*, *virāma*, *svarabhakti* etc. are some of the points which have been critically analysed here. The differences of different Śikṣā texts have also been attempted.

#### 0.8. Limitations of the study

The study has been undertaken with some specific objectives to present an analysis of *Yajurvedic Śikṣās* as hinted earlier. It does not claim to have examined all the aspects of differences and similarities of *Yajurvedic Śikṣās*. Due to paucity of published books in this field, the comparative analysis has been done on certain significant aspects only. Due to time constraints and limited scope on the part of the individual scholar (myself), it could not pursue the relevant issues pertaining to *KYV* which will be taken up as separate studies in future.

Thus the present study is an humble attempt to make a critical study of the *Yajurvedic Śikṣās*, to search inherent techniques if any in the vast and elaborate process of vedic phonetics. Modern researchers may take up allied issues from *Śikṣā* literature and study them from linguistic point of view and also from the point of view of awaiting computational phonetic aspect. This is only an humble approach to bring into limelight the peculiarties of *Yajurvedic Śikṣās* specifically the *Śuklayajurveda śikṣās*. At last it may be concluded with an humble prayer to worship the eternal Vedas as:

stutā mayā varadā vedamātā

pracodayantām pāvamānī dvijānām /

āyuḥ prāṇam prajām paśum kīrttim draviṇam

brahmavarcasam mahyam dattvā vrajata brahmalokam //

(AV. XIX.71.1)

### **CHAPTER-I**

MEANING AND SIGNIFICANCE OF ŚIKṢĀ AND GENERAL ŚIKṢĀS

#### CHAPTER-I MEANING AND SIGNIFICANCE OF ŚIKṢĀ AND GENERAL ŚIKṢĀS

#### I.1 Definition of Śiksā

Pāṇīni derives the word  $Siks\bar{a}$  from the desiderative of 'sak', (to be able). Thus the literal meaning of  $Siks\bar{a}$  is "a desire to be able". Interestingly this meaning finally developed into "phonetics". The Vedas were taught through oral tradition only. Thus it may be assumed that the difficulties in reciting the Vedas in correct phonetic procedure were so great that those who wanted to learn the Vedas, had to make a strong effort to be able to recite the *mantras* correctly. Thus the original implication of "a desire to be able to recite the Vedas correctly" finally developed into a general sense of the study of phonetics.

The pronunciation of Vedic *mantras* is an extremely complex affair and this complexity arose through various phases in the development of the ancient speech. Comparatively speaking, the early Vedic reciters had lesser difficulties in pronouncing the Vedic *mantras* correctly than their successors of later times. Correct pronunciation of Vedas is regarded as the highest achievement on the part of the priest who is expected to be well-versed.

In his commentary to RV, Sāyaṇācārya has defined Śikṣā as "svaravarṇādyuccāraṇaprakāro yatra śikṣyate upadiśyate sā śikṣā" which means śikṣā is that treatise where instructions are laid down on the mode to pronunciation of svara and varṇa etc. In another place, he has further elaborated it as:- śikṣā nāma yayā mantrāṇāṁ

padavarṇamātrā-svarādijñānaṁ varṇoccāraṇavidhi parijñānapūrvaka-sthānādiparicayaśca bhavati // which means Śikṣā is known as that text by which the knowledge of pada, varṇa, mātrā, svara, the process of pronunciation and the places of utterance of the alphabet of the vedic mantras are made possible. The Śikṣāvallī of Taittirīyopaniṣad explains Śikṣā as:- śikṣāṁ vyākhyāsyāmaḥ / varṇaḥ svaraḥ mātrā balam sāma santāna ityuktaḥ // which means Śikṣā is the explanatory text of the alphabet, accents, moras, places of utterance and various efforts, balance in utterance and euphonic combinations etc.

Further in the introduction of Śikṣāsangraha two derivations have been given of Śikṣā as:

- i) śikṣayati yā sā śikṣā/
- ii) śaktam śakto bhavitum icchā śikṣā/

This is  $yogar\bar{u}dha$  and resorting to the  $yoga\acute{s}akti$  of  $\acute{s}ik\.{s}\bar{a}yati\ y\bar{a}$   $s\bar{a}\ \acute{s}ik.\dot{s}\bar{a}$ , any text that gives instructions on any subject is to be known as  $\acute{s}ik.\dot{s}\bar{a}$ . But here the  $r\bar{u}dha$  meaning is dominant rather than the  $y\acute{o}g\bar{a}rtha$  and thus the texts which are conducive to the proper pronunciation of Vedic mantras are known as  $\acute{S}ik.\dot{s}\bar{a}$ .

## I.2 Origin of śikṣā as a science of phonetics and it's complexities

"sākṣātkṛtadharmāṇa ṛṣayo babhūvuḥ/"- As for this declaration of Yāska, the early Vedic seers who had visualized the mantras had lesser difficulties in pronouncing the Vedic mantras correctly. But later on the problem in pronunciation arose through various phases in case of successive seers. Correct pronunciation of the vedic mantras was

regarded as the highest achievement on the part of a priest. According to Patañjali the priest was expected to be well-versed in the proper inflexion syllabication, accent and articulation of speech sounds.

Even the period of Patañjali was marked for the decadence with regard to proper teaching of phonetics, as Patañjali had remarked that the Brahmins in the hoary past used to study grammar and after completing their initiation were given instruction on Vedic words when they had already learnt the vocal technique. But it was not so in Patanjali's time, when people reading the Vedas were gradually becoming reciters of the same. This shows the chronological distance between Patanjali and the early experts on Vedic phonetics. Correct pronunciation of speech sounds was regarded as the sole scope of Śikṣā at the earliest stage of it's development and the phonetic teachings were imparted to students only through oral tradition. But later on they were codified in the form of Śikṣā vedāṅga.

#### **I.3** Śikṣā as a part of Vedāṅga

The first information about the various constituents of Śikṣā occurs in the seventh book of Taittir iyopanisad which, for that reason, is also called the Śikṣāvalli. According to the description, Śikṣā consists of (i) Varna (letters), (ii) Svara (pitch accent), (iii) Mātrā (quantity), (iv) Bala (stress), (v) Sāma (utterance in a medium tone) and (vi) Santāna (euphonic combination). The above translation of these terms is given after Sankara's commentary of the Taitt. Up. But different scholars have differently translated them, for example, Macdonell,<sup>2</sup>

<sup>1.</sup> om sikṣām vyākhyāsyāmaḥ/ var nah svarah mātrā bala in sāma santānamityetat śikṣādhyāyah // (Taittirīyopaniṣad-1.2)

Macdonell, History of Sanskrit Literature, p. 256

following Sāyaṇa translates these as letters, accents, quantity, pronunciation and euphonic rules. Siddhesvara Varma translates varna as individual sounds, svara as accent and santāna as chanting of Vedic verses; But in this connection he ignores bala.3

W.S. Allen translates var na as sound unit, svara as tone, mātrā as quantity, bala as degree of buccal closure, sāma as tempo and santāna as junction.

While referring to the Śikṣā, in his introduction of the Rgveda commentary, Sāyaṇa thinks of the developed state of this Vedānga for he quotes the passage from the *Taittirīyopaniṣad*. The *Prātiśākhyas* probably belong to this developed stage of the Śikṣā-vedānga and that's why they have a much wider scope than the manual of the subject produced in the first stage. But when we go through the contents of Prātiśākhyas, we find that the scope of the Śiksā as given in the Taitt. Up. applies to a considerable extent, to the Prātiśākhyas which may be regarded as secondary Śikṣās.

#### **I.4** Differences between śikṣās and prātiśākhyas

There are a large number of differences between Śikṣā and Prātiśākhya. The Prātiśākhyas may be found to be wanting in certain respects. For example, the treatment of sāma and bala is non-existent in the Prātiśākhyas. As these two topics are matter of oral instructions, they were omitted by the *Prātiśākhyas*.

The  $V\bar{a}j$ .  $Pr\bar{a}t$ . (123-24) which is an elaborate one than the other Prātiśākhyas, deals with manual gestures for indicating accents and letters. But they have been elaborately dealt with in the Śikṣās.

<sup>3.</sup> S. Verma, Critical Studies in the phonetic observations of Indian Grammarians, p. 4

Some differences between Śikṣā and Prātiśākhya are stated below:-

- Rarely *Prātiśākhyas* deal with the varieties of *vivītti* (hiatus) and svarabhakti (vowel fragment), which are so accurately described and classified in the Śiksās.
- Except Vāj. Prāt, no other Prātiśākhya treats of the varieties of the circumflex accent in the manner they have been dealt with in the Śiksās.
- Prātiśākhya very rarely describes the relation of the seven musical notes with the three original accents viz. the *udātta*, anudātta and svarita. But this has been clearly described in the Šiksās.
- Minute details regarding the general condition of correct pronunciation are exclusively found in the Śiksās.
- Minute details regarding the relation of the vowel and consonant are a distinct contribution of the Śikṣās. It is important to note that for the explanation of all such subtle points the commentators on the *Prātiśākhyas* rely upon the *Sikṣās*.
- The *Śikṣās* unlike *Prātiśākhyas*, give interesting observations on the nature and quantity of anusvāra and ranga, on the different modifications and designations of the Visarjanīya.
- Nearly all the Śikṣās give many valuable didactic verses towards the end, which are extremely useful to young students.
- Śikṣās unlike Prātiśākhyas describe the mode of pronunciation

of individual sounds giving beautiful similies intended for driving away the drudgery and dryness of the subject.

Maxmüller defines Prātiśākhya as a collection of phonetic rules peculiar to one of the different branches of four Vedas; to one of those different texts in which each of the Vedas has been handed down for ages in different families and different parts of India. 4 Whitney in his edition of Ath Prāt, has subscribed to this view. The term Prātiśākhya has been etymologically explained by Mādhava as a treatise belonging to each individual branch or school of Vedas.<sup>5</sup>

This suggests that there were in existence as many Prātiśākhyas as there were schools in Vedas. Anantabhatta in the introduction to his commentary on the Vāj. Prā. defines the word Prātiśākhya as related with all the fifteen śākhās of white yajurveda. Durga in his commentary on the Nirukta takes the Prātiśākhyas as relating to more schools than one. Therefore it may be concluded that Max Müller might have misunderstood the word Prātiśākhya, for while he translates prātiśākhyam as "one" śākhā, it should be equivalent, more or less to each śākhā as the above authorities have already shown.

It is interesting to note that the Prātiśākhyas were sometimes called Śikṣās. Thus Uvata, in his introduction to the commentary of the Rk. Prāt, has considered this work to be a Śiksā. Vishnumitra speaks of Rk. prāt. as a Śikṣā treatise composed by Śaunaka. Madhusudan Saraswati, not only calls Prātiśākhyas as Śikṣās but also regards them as the Vedānga.

Besides all these, one of the Prātiśākhyas definitely speaks of

<sup>4.</sup> Ancient Sanskrit Literature, pp. 105-06.

<sup>5.</sup> Prāti śākha m bhava m prāti śākhya m on Śiddhanta Kaumudī, IV.3

itself as a Śikṣā of sounds. A hard and fast line between Śikṣā and Prātiśākhya is hardly possible. Sāyana was fully conscious of that, so he had ascribed a correct tradition to both Śikṣā and Prātiśākhya. Thus there was close interaction between Śiksā and Prātiśākhya from the remote past leading to the advancement of both these classes of literature forming the basis of the Prātiśākhya, according to Vaidikābharaņa and Uvaţa's Śikṣā and grammar. Śikṣās being purely phonetic treatises, the Prātiśākhyas, on the other hand, are phonetico-grammatical works. Concerning the relation between Śikṣā and Prātiśākhya, Uvata points out that the sounds of the alphabet are taught in the world; Rk. Prāt. selects only those sounds of the alphabet, which belong to its own śākhā.

The Vaidikābharana states that the sounds enumerated in the Śikṣās are common to secular and Vedic pronunciation. Thus some Śikṣās mention sixty eight sounds, some sixty four ( $P\bar{a}n$ . Sik.) and some, one hundred and eight (Laxmikanta Śiksā). But Prātiśākhyas specify the sounds peculiar to their own vedic texts. Śiksās prescribe rules of pronunciation common to all the śākhās without any specification, which however is made in the Prātiśākhyas. The Prātiśākhyas mostly presuppose Śikṣās of a general character. This may be confirmed by the observation of Ath. Prāt., which states that the origin of accent is not seen in the pada or samhitā texts. As the relation of pada or samhitā texts is the main scope of Prātiśākhyas, the Ath. Prāt. probably refers to those wider principles of accentuation that are embodied in the Śikṣās. Thus the scope is the specification of adoption of sounds that are prescribed by the Śikṣās. upadiṣṭo varṇasamāmnāyo laukiko vidyate,

tatra yāvanto var ṇā asyām śākhāyām upākhyāyante.....(Rk. Prāt.)

Haug in his essay "The nature and value of Vedic accents" arrived at the conclusion that Śiksās are decidedly older than Prātiśākhyas and that the doctrines of the former are incorporated and further developed in the latter. Burnell in his thesis, the Aindra School of Sanskrit grammarians" has subscribed to this view and ascribed the Śikṣās to the school of pre-pāṇinian grammarians. Kielhorn, on his own investigation and perusal of a large number of Śiksās, observes that the views of two scholars require modification. He believes that there is at least one Śikṣā', the Vyā. Śik., which is not older than Prātiśākhya as it follows the Taitt. Prāt., that it may be regarded as nothing more than metrical version of the latter. There is still another among the extant Śikṣās viz. The Sarvasammata Śikṣā which contains the expression that if Śikṣā and Prātiśākhya are found at variance, the  $Sik_{\bar{s}\bar{a}}$  is said to be less authoritative as the deer is weaker than the lion.

Besides, there is a distinct reference to the author of Rk. Prāt in the Yāj. Śik., which, while describing the mode of pronunciation of the ranga vowel, has actually quoted the authority of Saunaka. The Vyā, Śik, in its treatment of the medium tempo, further quotes the Prātiśākhyas in plural.

Such distinct references to the *Prātiṣākhyas* in the Śikṣās, can by no means prove that all the Śikṣās that have come down to us are later than Prātiśākhyas. This may be true of the majority of these treatises, which though bearing many high sounding and ancient names

<sup>6.</sup> Burnell, A.C. On the Aindra School of Sanskrit Grammarians, their place in the sanskrit and subordinate literature, 1875.

<sup>&</sup>quot;Remark on the Śikṣās", Indian Antiquary (5) Bombay, pp. 141-44.

can easily be proved to be recent compilations. But there still remains the minority of these works, which on a careful perusal appears to be older than the *Prātiśākhyas*. One may not hesitate to agree with the view that the contents of the *Śikṣās* are in the main, as old as those of *Prātiśākhyas*. We may in this connection quote the words of W.S. Allen, "whilest it is likely that the *Prātiśākhyas* are based on an early *Śikṣā* (such as that referred to in the *Taittiriya Āraṇyaka*) our extant texts of the latter appear to be of later date than the former." Allen agrees with Varma in placing the *Prātiśākhya* in the period 500-150 B.C. and the extant *Śikṣā* literature between 800 and 500 B.C.

## I.5 Superiority of śikṣās over prātiśākhyas

The chief object of all *Sikṣā* is to lay down rules for the proper recitation of the Vedas. They state in a general way, the physical and mental qualities essential for Vedic recitation. They lay down even the minutest rules for pronunciation of certain sounds and their euphonic combination. They treat of the musical modulation of voice, the right postures of the body and the gestures of hands and fingers, which form an essential part of the recitation. It may be easy enough to understand these rules when one sees them demonstrated. But anyone without hearing the recitation repeatedly will hardly be able to explain them with satisfaction. It is therefore necessary to take the help of traditional scholars, for any accurate, minute and intelligible description of these rules.

It is accepted that the teachings of the  $\dot{Sik}$  sas have been more fully developed in  $Pr\bar{a}ti\dot{s}\bar{a}khyas$ . But it may be wrong as in whatever point one goes to compare these two classes of literature, one can easily

<sup>8.</sup> W.S. Allen, Phonetics in Ancient India, p. 5.

see that the teachings of the  $\dot{S}ik,\dot{s}as$  are more complete and more minute in details than those of  $Pr\bar{a}ti,\dot{s}akhyas$ .

## I.6 Versification in the śikṣās

The tendency towards versification in the Śikṣās can be traced as early as the *Mahābhāṣya*, which, while pointing out the various defects of accentual pronunciation, quotes a verse which has all the appearance of being a Śikṣā verse. It is-

"grastam nirastam avalambitam hatam, ambūkītam dhmātamatho vikampitam / samdaṣtameṇīkīṭtamardhakam drutam, vikīrnametāh svaradosabhāvanāh" //

That this verse was not composed by Patañjali is evident from his own testimony of "apara āha" which precedes this verse. Thus this was composed by a predecessor of Patañjali. The same verse with slight modification also occurs in such ancient texts as the Nār. Śik. (3.11.12) Yāj. Śik. (2.28.29) and Rk. Pārt. (xiv). It appears from the body of Nār. Śikṣā that this verse originally, did not also exist there, as it has been immediately preceded by the statement. "etad viparīta-gītidoṣa ucyante, bhavanti cātra ślokāḥ which proves that it (this verse) is a quotation from external source about which we are, at present ignorant. The same might be spoken about Rk. Prāt. which, it is believed was originally existing in sūtras, but later on, it was versified, evidently for mnemonic advantage. From this, it may be concluded that the above verse originally existed in the Yāj. Śik. and that the statement "apara ahā" of Patañjali referred to Yājāavalkya. It is interesting to note that

<sup>9.</sup> Mahābhāṣya critically edited by F. Kielhorn, P.B.LL-25-26

maximum śikṣā texts are written in simple and lucid verse forms.

#### Collection of śikṣā literature **I.7**

Śikṣā literature though forms an important branch of Vedic literature, yet has not been given the attention which is it's due. Except the Yāj ñavalkya and Pān. Śik., the rest are little known to scholars. F. Kielhorn in 1876 collected for the first time, a large number of Śiksā manuscripts from different parts of India. But he was unable to publish them because the manuscripts were full of scriptural and orthographical errors. In 1893 a collection of 32 Śikṣās entitled as "Śikṣāsamgraha" was published by Pandit Yugal Kishore Vyasa from some original manuscripts. Due to abundance of orthographical errors it was not critically edited by him. Further in 1929 Siddheswara Varma published his "Critical Studies in Phonetic Observations of Indian Grammarians" in which he has examined fifty-five Śikṣās and has given a general concept of "Indian Phonetic Literature." Subsequently Acharya Ram Prasad Tripathy collected and edited the "Śikṣāsaṁgraha", which is published from Sampurnananda Sanskrit University, Varanasi in the year 1989. Besides these collections, some significant single Śikṣā texts published so far are as follows:

- 1. Pāṇ. Śik. or The Śikṣā Vedāṅga ascribed to Pāṇini critically edited in all its five recessions by Monomohan Ghosh published by the University of Calcutta, 1939.
- 2. Vyāsaśikṣā along with Vedataijasa commentary of Sri Surya Narain Suravadhani and Sarva Laksanamanjari Samgraha of Sri Raja Ganpathi, edited by Acharya Sri P.N. Pattabhirama Sastri,

<sup>10.</sup> Critical Studies in the Phonetic Observations of Indian Grammarians, Munshi Ram Manoharalal, Delhi, 1st Indian Edition-1961.

Chaukhambha Sanskrit Sansthan, Varanasi, second edition, 2004.

- 3. *Nāradīyaśikṣā* Exposition by Shivaraja Acharya Kauṇḍinnyāyana, Vidyābhavan Prācyavidyā Granthamālā, 126, Chaukhamba Vidyabhavan, Varanasi, Reprint, 2002.
- 4. Var noccāraņa Śikṣā- Arya Sahitya Mandala Limited, Ajmer.
- 5. *Yāj ñavalkya Śikṣā* with exposition by Dr. Naresh Jha, Chawkhamba Surabharati Prakashan, Varanasi, 1st edition 1999.
- Sampradāyaprabodhinī Śikṣā, Pt. Sri Gopal Chandra Mishra,
   Vidyabhavan Pracyavidya Granthamala Chowkhamba, Varanasi,
   1999.

## I.8 The chronology of śikṣās

The chronology of  $Sik s\bar{a}s$  is very obscure, as, like other sanskrit works, a very few of them quote any authority or give any geographical data. Moreover the informations if at all found are so common in various  $Sik s\bar{a}$  texts that it becomes difficult to decide exactly the originality of these data. The commentaries on  $Sik s\bar{a}$  are also very few and most of the commentaries are also obscure. Moreover the corruption in the text of the MSS. also creates a lot of difficultics to know exactly about their chronology. The repetition of verses makes it impossible to judge the original text of a particular  $Sik s\bar{a}$ . As observed by S. Varma, "Generally speaking, however, most of the  $Sik s\bar{a}$  as they exist in their present form bear the stamp of recency". Some  $Sik s\bar{a}$  texts refer to the  $Pr\bar{a}ti s\bar{a}khyas$  whereas some follow closely the  $Pr\bar{a}ti s\bar{a}khyas$ . The extant  $Sik s\bar{a}$  texts may be classified as follows:

<sup>11.</sup> S. Varma, Critical Studies...., p. 29.

- 1. General Śiksā
- 2. Śikṣās of Rgveda
- 3. Šikṣās of Śukla Yajurveda
- 4. Śikṣās of Kṛṣṇa Yajurveda
- 5. Śikṣās of Sāmaveda
- 6. Śikṣās of Atharvaveda

Under the general  $Sik s \bar{a}s$ ,  $P \bar{a}n$ . Sik is the most important treatise owing to its complete character and it has two main recensions belonging to Rv and Yv.

Among the Rg vedic Sikṣās the Svara-vyañjanaśikṣā quotes the Rk. Prāt. and it is post-Pāṇinian. As remarked by S. Varma, the work follows the Rk. Prāt. for it not only quotes in full two verses from it (IV. 8.9), but also uses throughout the terminology of this Prātiṣākhya, such as various terms of sandhi, nitya, bhugna, kṣaipra (Rk. Prāt., II.8),  $anuloma\ sandhi$  (Rk. prāt., II.3), etc. The work is post-Pāṇinian for it quotes Pāṇini, VII.4, 28 and VI. 1, 168.

The  $P\bar{a}r\bar{a}$ .  $\dot{S}ik$ . names eight  $\dot{S}ik\dot{s}\bar{a}s$  among which  $Y\bar{a}j$ .  $\dot{S}ik$  is the most complete  $\dot{S}ik\dot{s}\bar{a}$ . Regarding it's date and time, everyone draws a very confusing view. Somasarma has mentioned  $Y\bar{a}j\,\tilde{n}avalkya\,\dot{s}$  name in his opinion on quantity. As Somasarma is a recent name so  $Y\bar{a}j\,\tilde{n}avalkya\,\dot{s}$  upper limit should not be earlier than 5th century A.D. With Uvaṭa's data, it is assumed that the  $Y\bar{a}j$ .  $\dot{S}ik$ . is about three centuries earlier than the  $\dot{V}y\bar{a}$ .  $\dot{S}ik$ . So approximately  $Y\bar{a}j$ .  $\dot{S}ik$  is date cannot be assigned to more than thirteenth century. The  $\dot{V}y\bar{a}$ .  $\dot{S}ik$ , the second in the list of the  $\dot{S}ik\dot{s}a\bar{s}$  of the white  $\dot{Y}ajuveda$  is mainly selected from the Sarvānukramanī. From terms and accents traced in this  $\dot{S}ik\dot{s}a$ , it is no doubt a work mainly employed in the later phase of vedic literature. The rules of metres

prescribed in the Kātyāyana Śikṣā are repeatedly stated in the Vāj. prāt., so it is more recent and a later work than Vāj.prāt. Pārā. Śik. mentions nearly all the leading Śikṣās of white Yajurveda; it should be posterior to them. It's kernel is comparatively older, but its modernity is confirmed from the pronunciation of 'v' in various positions. Goutamī Śikṣā refers mainly to Prātiśākhya, so it's date is posterior to some extinct Prātiśākhyas. Amogh. Śik. also follows Vāj. Prāt. So it is posterior to Vāj. Prāt. Thus it is stated clearly that the lower limit of the four complete Śikṣās i.e; Yāj. Śik. Pārā. Śik. Amogh. Śik. and Varn.pra. Śik. is 10th century A.D. Regarding Bhā. Śik., everyone is in a mysterious state. The author of Siddhānta Šiksā mentions the name of Bhāradvāja as the first among the list of the  $\dot{S}ik$ ,  $\ddot{a}s$ . Lüders put the date of  $Vy\bar{a}$ .  $\dot{s}ik$ . at the middle of the thirteenth century. Śambhū Śiksā, according to some expert phoneticians is a contemporary of the Vyā. Śik. The Vāś. śik. as to Lüders opinion seems to be older than Vyā. Śik. In Sarvasammataśikṣā, certain portions are found to be repeated of Vyā. Śik. So it is a more recent work than Vyā. Śik. The Veda-laksanānukramanikā, a manuscript work refers to nine primary Śikṣās as follows:

- 1. Bhāradvāja Śikṣā.
- 2. Vyāsa Śikṣā.
- 3. Sambhū Śikṣā
- 4. Pāņini Śikṣā
- 5. Kauhalīya Śikṣā
- 6. Baudhāyana Śikṣā
- 7. Vāśisthī Śiksā
- 7. Vālmīki Śiksā
- 8. Hārita Śiksā

The secondary Śikṣās mentioned by Veda-lakṣaṇānukramaṇikā are:

- 1. The Sarvasammata Śiksā
- 2. The Āranya Śiksā
- 3. The Siddhānta Śiksā

Āraņyaśikṣā is written in a later period as it speaks itself as nectar extracted from the ocean of the nine Śikṣās. All the primary Śikṣās including Vyā. śik. must be more recently enumerated than the Bhatta Bhaskara Mishra and Gangesha. Bhatta Bhaskara Mishra lived according to Burnell at about 950-1000 A.D. and the date of Gangesha is 1150-1200 A.D. The authors mention Tribhāṣyaratna and Vaidikābharaṇa, so it should therefore have been presumably composed before the fifteenth century A.D. As Vyā śik borrowed a portion from the Kālanirnaya Śikṣā, so it should be earlier than the thirteenth century A.D. Pari. Sik. is earlier than the Siddhānta Śikṣā, as it is quoted by Vaidikābharaṇa and Tribhāsyaratna. So the lower limit for the date of its composition is 15th century A.D. The Nār. Śik. is one of the old treatises, mainly attributed to Nārada. Regarding it's date we have to depend on external evidence. The lower limit of it's date may be pushed back several centuries before Sangītaratnākara, it's date was possibly the 5th century A.D. and it is the probable date of Bharata's Nātya Śāstra. As this treatise seems to be one of the oldest of the Śikṣās, it's chronology cannot be given so early as to precede even the Prātiṣākhyas. It is posterier to Vamśa Brāhmana. The chronology of Lomaśī Śiksā is shrouded in mystery, so also the date of Goutamī Śik. remains fully unsolved. Nār. Śik. is contemporary with or posterior to Yāj. Śik. of the tenth century A.D. So the Śikṣā literature is extended to a period as late as 12th to 15th century A.D.

#### **I.9** The General śiksās

Before going to discuss about the importance of Yajurvedic Śikṣās, it is essential to write something or to gain knowledge about general Śikṣās. General Śiksās are just like stepping stone to Yajurvedic Śikṣās: Among them, Pāṇinīya Śiksā. Āpiśalīya Śiksā sūtra, Śiksā Samuccaya, Kālanir naya Śikṣā, Pari Śikṣā, Kaundinyāyana Śikṣā are noteworthy. First it is important to discuss about Pāṇinīya Śiksā.

## I.9.i *Pāṇinīya śikṣā*

It has been critically edited in five recensions by M. Ghosh, the five recensions are:-

- 1. The Agni purāṇa recension.
- The Rgveda. recension. 2.
- The Yajus recension. 3.
- The Pañjikā recension. 4.
- 5. The *Prakāśa* recension.

The Agni Purāṇa contains the shortest available text of the Pāṇ. Śik. and this recension mostly resembles the reconstructed text of the Pāṇ. Śik. Ghosh has given sufficient reasons for the assumption of this recension. The Pañjikā recension has been reconstructed by conjecture from the commentary called Śikṣā Pañjikā. It is sometimes wrongly identified with Yajus recension. Comparing the  $Pa\tilde{n}jik\bar{a}$  with Prakāśa recension, it appears that the latter is an inflated version of the former. There are no sufficient data to suggest any precise date for the Pañjikā recension. But it appears by no means recent, as it quotes Audavrājī mentioned in the Nār. Śik. which, except for its interpolated passage is as old as 200. B.C. Audavrāji has also been mentioned in the Rk, tantra

Vyākaraṇa, and the Śikṣā Prakāśa another commentary, on the Pāṇ, Śik. Since Audavrāji, has not been mentioned in any of the recent treatises on phonetics it appears that this work, was lost in course of time, and that the author of the Pañjikā probably flourished earlier than the time when Audavraji's work was still available. This was also the case with the authors of Rk. tantra Vyākaraņa and Śikṣā Prakāśa between 1000 A.D. and 1300 A.D. the *Pañjikā* recension in 1200 A.D. and the Agni Purāṇa recension in 800 A.D.

The Prakāśa recension like Pañjikā, was also reconstructed by conjecture from the commentary called the Śikṣā Prakāśa. Ghosh has taken it as a separate recension. The Yajuş recension of Pān. Śik. has been edited by Weber in his "Indische Studien" (iv, pp. 345 ff). This was adopted by Ghosh for his purpose. The Rk recension of  $P\bar{a}p$ . Sik., has also been edited by Weber in his Indische Studien (iv. pp. 345ff) on the basis of three MSS. After comparing it with the Pañjikā recension, Ghosh has adopted this edition omitting some minor details.

The Rk. recension is much older than 18th century, for its MSS. used by Weber are all later than 1833 Vikramasamvat. This is the most inflated version of *Pān. Śik.* and contains 60 stanzas divided into 11 sections. 18 verses have been taken genuine by Ghosh. Other 42 verses of the present recension, may be regarded as later additions and may be traced to some late Śikṣās. Ghosh accepts the Rk. recension as the origin of the Pañjikā, Prakāśa and Yajus recensions, although the Rk. recension, in its kernel, and the Agnipurāna recension were both adopted from the latter texts of Pān. Śik.

There are two existing commentaries on Pān. Śik.:-

a) Śikṣā Pañjikā

## b) The Śiksā Prakāśa

#### Šiksā Panjikā (a)

Of the two available commentaries of the Pān. Śik., the Śiksā Pañjikā is written in a simpler style, and has better acquaintance with the old phonetical traditions.

It defines  $\dot{S}ik\,s\bar{a}$  as the science by which the pronunciation of speech sound is learnt.

"śiksyate'nayā var noccāra namiti śikṣā"

This is to be compared with the term "Varna-Śikṣā" occurring in Rk. Prāt, (xiv.30) which possibly does not mean prātiśākhya, but simply relates to a *śiksā* of the earliest period. Instead of one, it speaks of two anusvāras viz. anusvāra, and nāsikya, which is sometimes shortened as "nāsikya" or "nāsikā".

It is important also on account of the information it gives about Audavraji who has been mentioned in four other works.

- Nāradī Šiksā (118.5) 1.
- Śikṣā Prakāśa commentary to Pāṇ. Śik. 2.
- Varnsa Brāhmana of Sāmaveda and 3.
- Rk. tantra (S-60) 4.

Besides, the *Pañjikā* quotes such authoritative works as the Aitareya Brāhmaṇa, Chāndogya Upaniṣad, Paṇini's Aṣṭādhyāyī, Uṇādi Sūtras, Bhagvadgītā, Patañjali, Manu Samhitā, Rk Prātiśākya, and the *Nāradī Śikṣā*, for the validity of its statements.

#### The śiksā prakāśa (b)

Though it is inferior in worth to Pañjikā, it has it's importance for the following reasons.

- It ascribes the authorship of the Pān. Śik. to Pingala who a) is said to be the younger brother of Pānini.
- It defines Śiksā as a science for the utterance of proper b) accents and speech sounds (Śikṣā svara varnoccārātmakam śāstram)

This is different from the definition given in Pañjikā where speech sounds are only the subject of instruction. It may be assumed that the two definitions point to two distinct traditions having their origin in two successive stages in the study of vedic phonetics. It has quoted passages from Pānini, Yaska, Nāradī, Goutamī, Saunaka, Patañjali and Audavraji. The fact that it does not quote any of the late Śikṣās, except Nāradī and Goutamī probably shows that it is an old commentary.

#### Śik sā Samuccaya I.9.ii.

It is different from "Śiksā Samuccaya" compiled by Sāntideva, which is a compendium of Buddhistic teaching derived from early Mahāyāna sūtras. It has been edited by C Bendall and published in the Bibliotheca Buddhica, of 1897. Verma includes this work in the list of abbreviations to his "critical studies."

The work dealing with phonetics bering the same name is the one described by Kielhorn, in his article." Remarks on the Śikṣās." This Śikṣā cites Ātreya, Nārada, and Parāśara and the Śikṣā treatises attributed to some authorities. It has freely used Pāņ. Śik. Hence it must be later than Pān Śīk. It contains about three hundred ślokas divided into 24 chapters with following titles.

(i) svrabhakti, (ii) dviroṣṭhya, (iii) prayatna, (iv) anusvāra, (v) anunāsika, (vi) mātrā, (vii) ekaśruti, (viii) var nayatva (enphonic change), (ix) kathaka (completion of chandas), (x) dvirukti, (xi) apūrva, (xii) yama, (xiii) krama, (xiv) jaṭā, (xv) ranga, (xvi) kampa and (xvii) aṅga (syllabication).

### I.9.iii. Kālanir naya śiksā

This  $Siks\bar{a}$  is exclusively devoted to the quantity of vowels. It had come to the notice of Whitney and Lüders. But they could not trace it out. Burnell suggested it's date as the 14th century and thought it to be a work of Sāyana. 12 But since it has borrowed a chapter from Vyā. Śik. it should be earlier than the 13th century, the date of Vyā. Śik. As regards the upper limit of it's date, no particular data are available, but this work is evidently posterior to *Prātiśākhyas*, for in the introductory verses the author says-"after studying according to my lights, the śāstras like the Prātiśākhyas, I proceed to describe quantity for the comprehension of Vedic truth" (Verse-5). Several verses quoted by the Tribhāṣyaratna and Vaidikābharaṇa can be traced out in this Śikṣā. It has been accompanied by a commentary named the Kālanir naya Dīpikā' by one Muktiśvarācārya. On his view on quantity, the author of this Śikṣā sometimes differs from Patañjali.

### I.9.iv. Pāri šiksā

It is a complete Śikṣā with a lucid commentary. Aufrecht in his

<sup>12.</sup> Aindra School of Grammarians, p. 49.

"Catalogus catalogorum" identifies Pāri with the Pārāśarī. This shows his lack of acquaintance with the Pāri. Śik. for it has little similarity with Pārāśarī Śik. The name of the author is Cakra who represents the views of Pāri on phonetics. The name Pāri comes in the list of sages such as Bhāradvāja, Vyāsa, Pāri, Śambhū etc, who had composed their respective treatises on phonetics. The name "Pāri is not to be met with elsewhere in Sanskrit literature. It can hardly be taken as an orthographical error for "Pāṇinī" because the commentator on his Śikṣā also calls Pari Śikṣā as has been quoted by Tribhāṣyaratna. It contains striking observations on doubling, quantity and accent.

#### Āpiśali śikṣā sūtra **I.9.v**

The phonetic  $s\bar{u}tras$  of  $\bar{A}pi\acute{s}ali$  escaped the notice of the vedic scholars for long, until Raghuvir (1934) published a critical edition of the text (from two MSS. of the Adyar Library) in the Journal of the vedic studies (Lahore). The fact that Apiśali was a predecessor of Pāṇinī and the author of a grammatical treatise, is evident from the Astādhyāyī (vā supyāpiśaleh vi.1.92). It is not easy to ascertain the exact time intervening between Āpiśali and Pāṇini--the two authorities on grammer.

The statement 'aṣṭaka āpiśala pāniniyaka' occurring in the Amoghavitti of Abhinava Śākaṭāyana makes one believe that like Pāṇini's  $A st \bar{a}dhy \bar{a}y \bar{i}$  the  $\bar{A}pi \dot{s}ala$  system of grammar had eight chapters- all composed in sūtras, almost similar in form and matter to those of Pāṇinī. Similarly, the  $\bar{A}pi\acute{s}ala$  system of phonetics is almost coincident with that of the Pāṇinian system composed in  $s\bar{u}tras$ . Like pāṇini,  $\bar{A}pi\acute{s}ali$  also composed the appendix to his work. A number of quotations from his Dhātupāṭha and Gaṇapāṭha can easily be traced in many ancient treatises. Of all the existing  $\dot{S}ik_{\dot{s}}\bar{a}s$ , that of  $\bar{A}pi\dot{s}ali$  is the most suitable for the beginner. It deals exhaustively with the mode of production of the sound material and it's final culmination into individual articulate sounds. It ignores altogether the complicated modifications which the sounds are liable to undergo in connected speech. It is not associated with any particular branch of the Veda. As a general phonetic introduction to grammar, it has never been superseded by any other treatise. Āpiśali is not popular with vedic students of a particular recension, but those of Pāṇinian and non-Pāṇinian schools of grammar have used the Āpiśali  $\dot{Sik}$ . extensively. Many passages from the  $\bar{A}pi\acute{s}ali~\dot{S}ik$ . have been quoted by some of the ancient authorities whom Raghuvir mentions towards the end.

## I.9.vi. Šikṣā sūtras of Pāṇini or Varṇoccāraṇa śikṣā

A set of phonetic sūtras has been attributed to Pānini by Svami Dayananda, which occurs in his Varnoccāranaśikṣā. The first part of vedānga prakāśa, which is written by Svami Dyananda is known as Var noccāra na śikṣā. This is completely different from the various versions of Pāṇinīya Śikṣā. This is not a versified Śiksā, but is in sūtra form. There are in total 86 sūtras of which 2-4 sūtras are in the form of verse. This recension has 8 prakaraṇas along with one introduction.

In this Śikṣā, first of all the etymology of "akṣara" śabda, the origin of sound and the significance of knowledge of varnas have been stressed upon. Then sixty three varnas have been enumerated along with definition of śabda, the characteristics of svara, like udātta, anudātta, svarita, the hrasva, dīrgha and pluta as well as the short and long divisions of alphabet have been dealt with. Then the character of consonants, the lacunas in the utterance of vowels and consonants have been discussed in this Śiksā. In the preface to this book, Dayananda

writes that he had secured a manuscript of these sūtras after a laborious search. No second manuscript of these has been available to any other scholar since the time of its first discovery by Svami Dayananda. This fact led M.Ghosh to conclude that the phonetic sūtras attributed to pāṇini, were collected from different sources such as the Mahābhāṣya and the Varna sūtras of Candragomin, by some late grammarian, probably Dayananda himself, who might have fathered these on Pāṇini for gaining a superior authority.

But S.K. Gupta in his article "Authorship of the phonetic sūtras edited by Dayananda"13 has tried to refute M.Ghosh by pointing out that the latter's view is mostly based on conjecture and hypothesis as evident in his reconstruction of the  $P\bar{a}n$ .  $\dot{S}ik$ . in five recensions. In accusing Svami Dayananda of literary forgery, Ghosh seems to be somewhat malicious towards him. Gupta questions: "Was there any time or circumstance which suggested to Dayananda to forego these sūtras on Pāṇini? Or is there any reason to disbelieve the statement of Dayananda, that he had secured a manuscript of these sūtras after a laborious search"?14

The above two questions can easily be set at rest the moment one takes into consideration the phonetic sūtras of Āpiśali, composed in eight chapters, resembling the sūtras of Varnoccāraņa śikṣā in content, arrangement and style. Should one then conclude that the  $\bar{A}pi\acute{s}ala~s~\bar{u}tras$ too, are an imitation of the varṇa sūtras of Candragomin? Certainly not.

The sūtrakāra Pāṇini and the śikṣākāra Pāṇini appear to have been two different persons. Otherwise it remains inexplicable as to why Pāṇini wrote his famous Aṣṭādhyāyī in sūtras and the phonetic rules in

<sup>13.</sup> Poona Orientalist-1951.

<sup>14.</sup> Ibid.

verses. He should and must have adopted the same style of sūtras for writing the phonetic rules. This is further corroborated by the first verse of the Pān Sik. which states that the verses that follow, embody the teachings and views of Pāṇini on phonetics. The first verse, thus leads one to the supposition that the rules written by Pāṇini were existing in sūtras. One is therefore inclined to consider the phonetic sūtras edited by Dayānanda as genuine works of Pānini. It is very likely that like the Astādhyāyī, these sūtras might have suffered some interpolations.

## I.9.vii Varņas ūtras of Candragomin

Liebich<sup>15</sup> in his "Das Datum Candragomin's and Kālidāsa's" fixes the lower limit of the date of these sūtras in the seventh century A.D. In Kalhana's Rājataranginī and Bhartrhari's Vākyapadīya, it has has been stated that Candragomin recovered the mutilated text of the Mahābhāsya at the command of Abhimanyu, the then king of Kashmir. According to Varma and Ghosh, Candragomin had exercised a considerable influence on the later grammarians of the Pāninian school. But S.K. Gupta<sup>16</sup> and Pandit Yudhisthira Mimāmsaka<sup>17</sup> held just the opposite view. According to Gupta, Candragomin, rather was immensely benefited by the Aṣṭādhyāyī, Mahābhāṣya and the Uṇādi sūtras of Pāṇini's school. Likewise, he was also benefited by the phonetic sūtras of Pāṇini, which Ghosh regards as a mere product of the re-edition and amplification of the Varnas ūtras of Candragomin. But this view of Ghosh is being refuted on the basis of the phonetic  $s \bar{u} tras$  of  $\bar{A} pi \acute{s} a li$  which may be regarded as old as or perhaps, older than the phonetic sūtras of Pāṇini.

<sup>15.</sup> Bresluk, 1903, p. 11

<sup>16. &</sup>quot;Authorship of the Phonetic sūtras edited by Dayānanda" Poona Orientalist, 1951

<sup>17.</sup> sanskrt vyākarana-śāstra kā itihas.

The Varnas ūtras of Candragomin are almost based on those of Āpiśali. Nevertheless, the Candra School of grammarians is undoubtedly one of the earliest coming only after the Kātantra, and was once spread throughout the whole Buddhist sphere of Sanskrit studies. Candra's grammar has been utilized even by the authors of kāśikā. Candra wrote the grammar, it's commentary, unādisūtras, ganapātha, dhātupātha, lingānuśāsana, upasargavītti and also the varnasūtras.

The arrangment of the *varna sūtras* is the same as that of  $\bar{A}pi\acute{s}ala$ sūtras. In using the minimum number of syllables and in maintaining uniformity of expression, Candra has closely followed Apiśali. The name of sthāna, karaṇa and prayatna, always opens the sūtras which have mostly the nominative singular termination. Being a Buddhist, Candra does not recognize the vedic verse and excludes the first Apiśala verse from his treatise, which is devoted to the description of Śabdabrahma.

### Comparison of Apiśali, Varnoccārana and Varna sūtras of I.10 Candragomin

#### I.10.i sthāna prakaraņa

1) ākāśavāyuprabhavaḥ śarīrāt sammuccaran vaktramupaiti nādaḥ/ sthānāntare su pravibhajyamāno var natvamāga cchati yah sa śabdah/  $P\bar{a}n.$  S.S.-1 Candra (wanting)

The verse attempts to give a definition of Śabda as follows:-

The inarticulate sound, originating from the sky and the wind and rising up from the body, enters the mouth; and being obstructed at various places of articulation attains the quality of the articulate sound; that is the word.

2) tamaksaram brahma param pavitram guhāśayam samyaguśanti viprāḥ/ saśrevasā cābhyudayena caiva samyak prayuktah purusaṁ yunakti//

 $P\bar{a}n. \, \dot{S}.S.$ , i. 2. Candra (wanting)

Candra being a Buddhist, might have omitted this verse from his treatise. This verse has been dedicated to 'aksara', syllable. Etymologically 'aksara' means indestructible. It is the highest purifying agent. It's nature is ever shrouded in mystery. Hence the wise men are desirous of revealing its nature. Rightly employed, it brings happiness and prosperity to its devotee.

3) sthānamidam karanamidam pravatna eşa dvidhā, anila sthānam pīdayati vīttikārah prakrama eso'tha nābhitalāt.

Pāṇ.Ś.S. i.4. Candra (Wanting)

This gives a synopsis of the chapters to be dealt with in the treatise. These are:

- i. Place of articulation (*sthāna*)
- ii. Articulator (karana)
- Two kinds of articulatory process (prayatna) iii.
- The pressure of wind on the articulatory organs iv. (anila-sthāna-pīḍana)
- Phonetic observations of the commentators (vttikāra) v.
- Succession of letters (prakrama) vi.
- Neural process in the production of sounds (nābhitala) vii.
- tatra sthānakara naprayatnebhyo var nāstri sa stiḥ / (candra) 4) sthānakara naprayatnebhyo var nā jāyante // Pān.Ś.S.

Letters, produced through place of articulation, articulator, and articulatory effort, are sixty three in number. Pāṇini simply enumerates the sounds without mentioning 'sthānakaranaprayatnebhyo' which Āpiśali mentions. Since a sūtra always guards it against proximity, Pāṇini is justified to omit this portion from his sūtras. Candra on the other hand does not enumerate the sounds but mentions how they are produced. One can easily omit the sūtra 'sthānakaraṇaprayatnebhyo varṇā jāyante' which appears to be redundant in the treatise.

5) tatra varņānām keşām kim sthānam kim karanam prayatnaśca kah kesām ityucyate. Pān. Ś.S. Candra (wanting)

This sūtra questions about the 'sthāna' 'karana' and 'prayatna' of individual letters.

- 6) tatra sthānaṁ tāvat, Candra: Pan. Ś.S. (wanting)
- 7) "akuhavisarjanīyāh kanthyāh" cp. Nyāsa (Part i.p.58) Pān. ŚS.5: Candra 3.
- 'a, ka, kha, ga, gha, na, ha and the visarjanīya are glottals (kanthya). The word 'kanthya' is generally translated as guttural being derived from 'kantha' which is non-technical usage kanthya means, 'throat' or more specifically the aperture of the throat. The word 'kantha' in it's technical sense denotes the 'glottis'. Vopadeva regards "e" as a glottal sound.
  - 8) 'ha-visarjanīyāvurasyāvekeṣām' Pāṇ.S.S.-6, Candra (wanting)

According to some, 'h' and the visarjanīya are pulmonic. The word 'uras' denotes the 'chest'; 'h' and the visarjanīya in certain contexts, are chest sounds.

- Rk.prā. I (39) 'h' and the visarjanīya are glottal; or cp. (i) as some say pulmonic
  - (ii) Rk.prā. 2.3 'h' and the visarjanīya are glottal; the visarjanīya is alternatively regarded as pulmonic.
- 9) 'jihvāmūlīyo jihvyah' Pān. Ś.S.-7, Candra, 13.

The jihvāmūlīya is lingual or velar. In calling the jihvāmūlīya a velar sound, Candra is more clear than  $\bar{A}pi\acute{s}ali$ . The term literally means "formed at the root of the tongue"; hence it should be regarded as velar. Abhayacandra in his commentary on the Śākaṭāyana prakriyā saṃgraha (sūtra, 6) regards the jihvām ūlīya as a glottal sound. In one sense, he might be right; for, the jihvāmūlīya is an ayogavāha sound; an ayogovāha sound becomes homorganic with the letter on which it depends; since the jihvāmūlīya depends on 'k' and 'kh', it should be homorganic with these two letters; in other words, it should be glottal. But it cannot be so asserted on account of the prevailing controversy on the place of articulation of the 'k' mute-series. While the authors of the phonetic sūtras invariably treat this series as glottal, Pingalācārya (the author of the versified  $P\bar{a}n$  Sik.) and others, treat it as a velar series. It seems, however, that the sūtrakāras are more accurate in jihvāmadhya etc., as more appropriate as a name of an articulator (karana name) rather than that of a place of articulation (sthāna nāma) which Pingalācārya takes to be (jihvāmūla tu kuḥ proktaḥ) etc. Pāṇ. Śik.

> 10) 'kavargavar nānusvārajihvām ūlīya jihvya eke sām' Pāṇ. Ś.S. 8.; Candra (wanting)

According to some, the 'k' mute-series, 'a', anusvāra and the jihvāmūlīya are velar. Pānini does not recognize anusvāra as a velar

sound; hence the corresponding sūtra has 'r' instead of anusvāra. (kavarga rvarnaśca jihvyah). The term 'jihvya' etymologically means originating from the tongue, without referring to its parts. But Panini and Āpiśali use it in the sense of jihvāmūlīya. Candra excludes this sūtra from his treatise; it seems he is not satisfied with the term 'jihvva' which being generic, may at once denote the root, middle, top etc. of the tongue. Hence he uses the term 'jihvāmūlīya' for 'jihvya', and thus, he may be more accurate in his observation than Apiśali or Pānini.

11) "sarvamukhasthānam avarnam eke" Pān. S.S. i.9; Candra (wanting). Cp. Mahābhāṣya I-1.9; Bhāṣāv ttiviv tti of Śṛṣṭidhra, i.1.9

According to some, 'a' is articulated in the entire mouth. For 'mukha' Pānini uses the word 'āsyamātra'. The term 'āsya' refers to the area from the lips to the 'Kakālakā' (oṣthāt prabhṛti prāk kakālakāt, Mbh.i.1.5), the thyroid cartilage or 'Adam's Apple'. (grīvāyām unnatah pradeśah, Kaiyyata on Mahābhāsya)

12) 'icuyaśāstālavyāh' Pān. Ś.S.11; Candra 10. Cp. Nyāsa, Part 1.P.58 'i' 'ca', 'cha' 'ja', 'jha' 'ña' 'ya' and 'śa' are palatal.

There is no difficulty with regard to the term 'tālu'. The palatal plosives are pronounced like prepalatal affricates in M.I.L. (Grierson, J.R.A.S., 1913, pp. 391 ff.)

13 & 14) "rtura sā mūrdhanyāh", "ra dantam ūlasthānam eke sām" Pān. S.S.12-13; Candra. 6.

The word 'mūrdhanya' is derived from 'mūrdhan', 'head'. The the Taitt.Prā. explains commentator on (ii.37)'vaktravivaroparibhāga', upper part of the mouth cavity. Max Müller

(Rk.Prā.-44) equates this term with the Greek 'ouranos' (lit. vault of heaven), applied to the roof of the mouth. Pike (Phonetics, p.123) translates 'mūrdhanya' as cacuminal although it is generally translated as cerebral. However, the modern translation of the term, is 'retroflex', which, though not literal, is interpretative. For, the 'ta' mute-series involves a special process rather than a place of articulation. Jacobson regards the retroflex series as a later addition to the Indo-Aryan from the Dravidian tongue (Allen, op.cit.p.53, f.n.6).

There are divergent views on the place of articulation of r and r. All the Prātiśākhyas state that 'r' is an alveolar sound. The alveolar position is indicated by the term 'dantam ūla', root of the teeth. The Yāj.  $\acute{S}ik$ . (p.154) states that among all alphabetic sounds 'r' alone is alveolar. The Rk. Prā. quotes some authorities who regard 'r' as 'vartsya', produced from the teeth-ridge. The term 'vartsya' has been explained by Uvata as denoting 'the projection behind the roots of the teeth' which in Pike's terminology is the alveolar or rather the gingival arch, since the contact is made against the gum, not the bone (op.cit.p.122). Sweet in his 'Primer' (p.8) distinguishes the teeth-rim  $(m\bar{u}la)$  from the teeth-edges (agra). The Pān. Ś.S-14 and some other authorities regard the dental series (ta varga) as alveolar. "In such cases the reference is to the junction of the teeth with the gums, and the alveolar position of 'r' is then clearly distinguished by a further description e.g. for r, contact is made by the centre of the tongue-tip behind the roots of the teeth" (Allen, op.cit.p.54 ff.). The vaidikābharana on Taitt. Prā. (i.19) states that 'r' is produced when the middle of the front of the tongue touches a point close to the teeth. The sound, thus produced is 'repha' whose etymology is given as "riphyate vipātyate vastrapāṭana dhvanivad uccāryate iti rephaḥ" "It is called 'repha' because it is pronounced like the sound of tearing or

ripping a piece of cloth". But the above etymology though popular, may be cancelled by the formative elements of 'repha'. Had 'repha' been a single word, there would have been no difficulty about the above etymology. But the *Taitt.Prā*. states that in 'repha' there are two elements viz.. 'r' and 'epha', the latter, being a substitute for 'kāra' added to each consonant. The purpose of coining 'epha' instead of kāra has been explicitly stated there.

However, the Vaidikābharaņa wants to point out that 'r' is a rolled sound, and therefore it should be regarded as dental. Thus according to all the Prātiśākhyas 'r' was either dental or alveolar, but according to the Pān Śik. it is cerebral.

- 15) "Itulas ā dantyā" Pāņ. Ś.S. 15; Candra.7; Nyāsa, part.1. p.58, 'I', 't', 'th', 'd', 'dh', 'n', 'l' and 's' are dentals. The word 'danta' denotes either the teeth or the rim of the teeth. 'I' is a mixed vowel, as it combines the features of vowel and consonant. There is difference of opinion on the place of articulation of '1'. Rk. Prā. (i.18) regards it to be a velar sound Vāj. Prā. (i.65) takes it to be dental; Ath. Prā. (i.26) regards it as veolar; Taitt. Pra. (ii.18) regards it as alveolar and according to Rk. Tantra (4) it is not located. I (ल्) is said to be articulated by the two sides of the tongue (Max Müller on Rk. Prā. xiv-27).
- 16) "vakāro danto sthyah" Pān SS.16; Candra 12, Pān Sik 18 'v' is dentolabial. It's earlier pronunciation was bilabial (double 'v') but in course of time it changed into dento-labial. Beniel Jones in his 'Outlines of English Phonetics' (p.693) observes: "Indians generally replace 'v' by a center front tooth lightly and is so held as to allow the air to escape chiefly at the sides".

17) "srkvasthānam eke" Pāņ. Ś.S.17; Candra (wanting)

According to some, 'v' is articulated at the corners of the mouth. 's rkva' in this sense occurs in the Indische Studien, Kathāsarits āgara and Suśruta.

- 18) "up ūpadhmānīyā oṣṭhyāḥ" Pāṇ.Ś.S.18; Candra 11. Nyāsa, part.1 p.58
- 'u' p, ph, b, bh, m, and the upadhmānīya fricative are labials. 'Ostha' as a place of articulation occurs in the sound, in the singular, (Rk. Tantra.-9, 'u-veh-pa osthe') but as an articulator it occurs in the dual (*Taitt.Prā*. ii. 39, *oṣṭhābhyāṁ pavarge*)
  - 19) "anusvārayamā nāsikyāh" Pān. Ś.S.-19; Candra 8.

'nāsikānusvārasya'-- anusvāra and the yamas are nasals. Candra is silent about the yamas.

20) "kanthanāsikyamanusvārameke" Pān. Ś.S-20; Çandra (wanting)

According to some anusvāra is glotto-nasal. The description of anusvāra as glotto-nasal limits its sphere of articulation. For, anusvāra, being an ayogavāha sound becomes homorganic with the letter on which it depends and in that capacity, it may be dento-nasal, or gllotto-nasal or labio-nasal or palato-nasal or cerebro-nasal etc., according to its context. Better, it should be regarded as nasal.

21) "yamāśca nāsikyajihvāmūliyā ekesām" Pān-Ś.S-21; Candra (wanting)

According to some, the yamas are naso-velars.

- 22) "edaitau kanthatālavyau" Pān. Ś.S.22; Candra 4; Nyāsa, part-I p.58.
- 'e' and 'ai' are glotto-palatals Candra in sūtra-10 also regards i' as glotto-palatal.
- 23) "odautau kanthyo sthyau" Pāņ. Ś.S-23; Candra 5; Nyāsa, part-1 p.58.
- 'o' and 'au' are glotto-labials. Candra (in sūtra-11) also regards 'u' as glotto-labial.
- 24) "nnnmāh svasthāna nāsikāsthānāśca" Pāņ. Ś.S.-24; Candra.9 ' $\vec{n}$ ',  $\vec{n}$ , n, and m, are nasals and are homographic with their respective mute-series.
- 25) "dvivar nāni sandhyaksar āni" Pān. Ś.S.-25; (dve dve var ne) sandhyakṣarāṇāmārambhake bhavata iti), Candra (wanting)

'Sandhyaksara' denotes a compound vowel, a dipthong." "e, ai, o, au" are dipthongs. The Yāj. Sik.(ii.2.20) says in 'ai' and 'au', the first morā is glottal and the second palatal or labial. As regards 'e' and 'o', the  $P\bar{a}n.Sik.(13)$  says; "in 'e' and 'o', the glottal element has a length of ½ mora and in 'ai' and 'au' 1-mora ". Although dipthongs are combinations of vowels, they are treated as single letters. (Vāj Prā. IV. 145).

26) "sarepha rvarnah"  $P\bar{a}n$ . \$S.-26; Candra (wanting) r is homorganic with 'r'. The Sarvasammata śik. (19) observes;

ṛkārasya svarūpaṁ hi śliṣṭaṁ padacatuṣṭayam / padeșu teșu vij ñeyo nādavanto svarātmakam / anu rephasya madhye tu vijñeyaṁ vyañjanātmakam // The characteristic of 'r' is that it is a compound of four segments; of these, the first and the last are vocalic, whilst the central two are consonantal. Regarding the method of combining the vocalic as well as the consonantal elements the commentator of the *Ath.Prā*. (i.37) observes;

"yathāngulya nakham tathā sūtre manirivetyeke tṛṇe kṛmiriveti ca"

The vocalic and the consonantal elements in '*r*' are combined like a nail on the finger, or a pearl on a string or a worm in the grass.

27) "evam etāni sthānāni" Pān. Ś.S. (wanting); Candra (wanting)
Here ends the chapter dealing with the place of articulation.

## I.10.ii. Karaņa prakaraņa

# 1. "karaṇam api" Pāṇ. Ś.S. (wanting) Candra-14

While, 'sthāna' denotes the passive organ of articulation, 'karaṇa' denotes the active organ of articulation. The 'sthāna' is that which is approached and the karaṇa, that which approaches. The terms closely correspond to what Pike (Phonetics, p.120) calls 'point of articulation' and 'articulator' 'karaṇa' always denotes an area of the tongue viz. root of the tongue (jihvāmūla), middle of the tongue (jivāmadhya), tip of the tongue (jihvāgra) etc. In the articulation of the labial sounds, the lower lip is the 'karaṇa' and the upper lip is the 'sthāna'. In the articulation of the glottal sounds, the lower part of the glottis is considered to be the karaṇa. Hence the articulation is infra-buccal. The articulation of the nasal sounds is however, a complicated affair. The complicacy is due to the fact that the nose by some authorities is described as 'sthāna' while by some others, it is described as 'karaṇa'.

2. "jihvyatālavyam  $\bar{u}$ rdhanya dantyānā $\dot{m}$  jihvā kara $\bar{n}$ am"  $P\bar{a}$  $\bar{n}$ .  $\dot{S}$ .S.-1; Candra (wanting)

The tongue is the articulator of the velars, palatals, cerebrals and dentals.

- 3. "katham iti?" Pān. Ś.S.(wanting), Candra(wanting)
- 4. "jihvāmūlena jihvyānām" Pāņ. Ś.S. 2. Candra (wanting) Pāṇini adds "tad yeṣām abhyāsam"

The velars are articulated by the 'root of the tongue'. The 'sthāna' of the velar series is the "hanu mūla" (root of the jaw, the soft palate).

"jihvāmadhyena tālavyānām" Pāņ. Ś.S.-3; Candra. 17 5.

The palatals are articulated by the middle of the tongue (cp. Ath.Prā.-1.21; Vāj. Prā.-i 79; Taitt.Prā-ii.36).

> "jihvopāgreņa mūrdhanyānām" Pāņ. Ś.S.-4; Candra.16. 6.

The articulator of the cerebrals is the tip of the tongue retroflex or rolled back (prative stita) cp. (Ath. Prā. i.22; Vāj. Prā. i.78; Taitt. Prā. ii.37) 'upāgra' denotes the part lying next to the tip or the under-side of the tip.Regarding the retroflex articulation of the t-series J.R. Fifth observes:

"The Indian 't' is not made with the tip in the English manner, but with the very edge or rim of the tip, which is slightly curled back to make this possible"

(vide, Bulletin of the School of Oriental and African Studies, xii. 859).

"jihvāgrādhah karanam vā" Pān. Ś.S. 5; Candra (wanting) 7.

Optionally, the bottom of the tip of the tongue is the articulator of the retroflex sounds.

"jihvāgreņa dantyānām" Pāņ. Ś.S. 6; Candra 15. 8.

The tip of the tongue is the articulator of the dentals. In the articulation of the dentals, the tip of the tongue is thrust forward ('prastīrna' Ath. Prā-i.24). Excessive spreading of the tongue has been prohibited by the Rk. Prā. (xiv.21) in any of the mute-series.

> "śesah svasthānakaranah" Pān. Ś.S. (wanting) Candra 18 9.

The rest have the same organ or organs as the place of articulation and articulator.

"ityetat karaṇam" Pāṇ. Ś.S.-7; Candra (wanting) 10.

Here ends the chapter dealing with articulator.

#### Antah-prayatnaprakarana I.10.iii.

"prayatno dvividhah" Pān. S.S.-1; Candra 19. 1.

Pāṇīni adds 'api'. 'prayatna' denotes the articulatory process. It is of two kinds.

- "ābhyantara bāhyaśca" Pān. Ś.S.-2.; Candra 19. 2.
  - (1) intra-buccal and (2) extra-buccal

The sūtra (no.19) of Candra has been divided into two separate sūtras by Āpiśali and Pānīni.

- 3. 'ābhyantarastāvat' Pāṇ. Ś.S.-3; Candra 20.
- 4. "spṛṣṭakaraṇaḥ sparśaḥ" Pāṇ. Ś.S.-4; Candra-27

Candra (in  $s\bar{u}tra$  21) points out that the intra-buccal processes are of four kinds: (1) closure (2) openness (3) full contact and (4) slight contact. Neither  $\bar{A}pi\acute{s}ali$  nor Pāṇini enumerates these processes, but both deal with them in describing the prayatna of different sounds. This  $s\bar{u}tra$  and succeeding two  $s\bar{u}tras$  are quoted in the  $Ny\bar{a}sa$  (Part.1.p.59). Patñjali observes:

"stops have full contact, semivowels have slight contact, fricatives have openness, (the adjective 'slight' should proceed) and vowels have openness (the adjective 'slight' should drop) *Mbh*. i.1.10"

- cp. (i) Bhartrhari's Mahābhāṣya Dīpikā, p.183
  - (ii) Srstidhara's Bhāsā Vrtti, i, 1.9
- 5. "Iṣatspṛṣṭakaraṇāḥ antaḥsthāḥ" Pāṇ. Ś.S.-5; Candra. 28 The term 'antaḥstha' (literally standing between) may be interpreted as referring to the intermediate degree of contact. The ending as stha, 'standing' refers to the place between the stops and the fricatives. Plato distinguishes between 'phoneenta' (sonant) and 'aphona' (non-sonant), the distinction being phonological. Aristotle distinguishes between 'aneuprosboles' (non-contact, skt. aspṛṣṭa) and 'meta-prosboles' (contact, skt. spṛṣṭa) the distinction being phonetic rather than phonological. Plato further mentions consonants having noise (psophos) and having no voice (phthongos). The latter he calls intermediate (mesa). Aristotle calls it 'semiphona', half-sonant and proceeds to define it by a combination of phonetic and phonological criteria.

The semivowels are still eminently spirants, fricatives and constricatives. The term 'semivowel' has its origin in the Greek 'semiphonon' through the medium of the Latin 'semivocalis' and its employment generally corresponds to Skt. 'antahstha'. Among the semivowels, 'r' and 'l' are called liquids. The term 'liquid' has its origin in the Greek (lit.moist) through the medium of the Latin 'liquidus'. The semivowels have slight contact.

#### "Isatvivītakaranā usmānah" Pān. Ś.S.-6.; Candra 23 6.

Pāṇini adds "vivītakaraṇā vā" Candra: "vivītatvam svarāṇām uṣmāṇām ca". It seems that Āpiśali is more correct than Pāṇini or Candra, for if 'vivitatva' (openness) is accepted for both vowels and fricatives, there is no means to distinguish between the articulatory processes of the vowels and the fricatives. Therefore, Pāṇini optionally regards them to be produced with vivitatva (openness). Slight contact and slight openness provide classificatory criteria for the semivowels and fricatives respectively.

The present observation regarding the articulatory process of the fricatives, finds an echo in the statements of western authorities such as Grammont (French phonetician), Sievers (German phonetician) and Pike. Grammont says that in pronouncing the retroflex fricative (s), "the tongue disposes itself in the form of a gutter and forms a canal very narrow" (Traite de phonetique, p.69). This is similar to the statement of the Ath.Prā.(i.23) that in pronouncing the retroflex fricative, the tongue assumes the form of a trough (sakārasya dronika). Sievers in his "Grundriss der Phenetik" (Sec. 314) also makes a similar statement: "In the articulation of fricatives, the tongue in its equator, is indented to several small and deep canals" which is parallel to Pike's statement of the grooved tongue for a sibilant (op.cit.p.121).

7. "viv takara nāh svarāh" Pān S.S.-8; Candra 23

Patañjali derives the word 'svara' as svayam rājate = autonomous (on Pān.i.2.29-30).  $N\bar{a}rad\bar{i}$  śik.(Ś.S.p.361) compares the vowel to a powerful monarch and the consonant, to a weak king, the latter submitting to the force of the former. Consonant is like a pearl in a necklace, but the thread which supports it, is the vowel (Ś.S.p.361). For the vowels, 'the place of articulation' signifies the place to which approximation ( $upasamh\bar{a}ra$ ) is made, and the 'articulator' refers to the organ which effects the approximation. For the rest, the place of articulation refers to the place where contact (sparśana) is made, and the 'articulator' refers to the organ which effects contact. For vowels, the articulator is open.

8. "tebhya 'e' 'c' viv tatarau" Pāņ. Ś.S. (wanting); Candra-24

'e' and 'c' are more open than the vowels, cp. Nyāsa. Part.l.p.18; Padamañjarī Part.1.0.18.

9. "tābhyām ai au" Pān S.S. (wanting); Candra -25

'ai' and 'au' are more open than 's' and 'c'. Candra adds: 'tābhyāmapyakāraḥ' 'a' is more open than 'ai' and 'au'. This sūtra has been left out by Āpiśali and Pāṇini, but it occurs in the Nyāsa (Part 1.p.8).

- 10. "samv tastvakāraļi" Pāņ. \$S.-9; Candra- 22
- 'a' is produced with closure or contraction.
- 11. "ityeṣo'ntaḥ prayatnaḥ" Pāṇ. Ś.S.-10; Candra (wanting)

Here ends the chapter dealing with intra-buccal processes.

# I.10.iv. Bāhyaprayatna prakaraņa

1. "atha bāhyāḥ prayatnāḥ" Pāṇ Ś.S.-1; Candra -29

And then begin the extra-buccal processes.

2. "vargāṇām prathamadvitīyāḥ śaṣasavisarjanīyajihvāmūlīyopadhmānīyā yamau ca prathamadvitīyau vivṛtakaṇṭhāḥ śvāsānupradānā-ścāghosāh' Pān. Ś.S.-2; Candra 30.

Candra omits 'yamau ca prathamadvitīyau'. The first two letters in each mute-series, (i.e., 'k kh, c ch, t, th, t th, p ph', 'ś ṣ s' the visarjanīya, jihvāmūlīya, upadhmānīya, and the first two yamas (i.e., the long and short anusvāras) these eighteen letters are produced with the openness of the glottis, emission of breath and nonvoice. sūtras 2-7 of Āpiśali, have been quoted in the Nyāsa (part.1.p.57) with slight variation. For instance, in sūtra-1, there occurs 'tatra vargāṇām' instead of 'vargāṇām'; in sūtras-3, 5, 'vargyayamāṇām' instead of 'vargayamāṇām'. cp. Padamañjarī (part-1.p.59) Mahābhāṣya i.1.9 "tatra vargāṇām .... madhiko guṇāḥ"

The term 'anupradāna' (lit. after-effect) denotes secondary features which according to the Śik. Prakāśa are nasality, breath, voice etc. Whitney (Taitt.Prā. xxiii.2) translates this as 'omission' and Weber as "Ausstossung" (Ind. Stud. iv.p.107). Varma (op.cit.p.3) translates it as 'sound-material'. From the etymology of the word, the author of the Śik.Prakāśa seems to have given a more appropriate interpretation than the rest.

3 & 5. vargāṇāṁ prathamo alpaprāṇa itare sarve mahāprāṇāḥ 9,5050 varga-yamānām trtīyā antahsthaścālpaprānā itare sarve mahāþrānāh. /Pān. Ś.S.-3,5; Candra 31, 32

The first, third and the fifth letters of each mute-series; (i.e., k g $\vec{n}$ , c, j,  $\tilde{n}$ , t, d, n, t, d, n, p, b, m) the semivowels (i.e., yrlv); the first and third yamas (i.e., the short anusvāra and anunāsika) are unaspirate sounds (alpaprāṇa, lit. little breath). The rest (kh, gh, ch, jh, th, dh, th, dh, ph bh, ś s s h, visarjanīya, jihvāmūlīya, upadhmānīya, anusvāra, the second and the fourth yamas (long anusvāra and I) are aspirate sounds (mahāprāṇa, lit. big breath). Candra, being a Buddhist does not include the yamas either among aspirate or unaspirate sounds.

4. "vargāṇām tṛṭiyacaturthā antaḥsthā hakārānusvārau yamau ca tritīyacaturthau sariv taka nthā nādānupradānā gho savanta śca" Pāņ. Ś.S.-4; Candra-33

The third and the fourth letters in each mute-series (g gh, j jh, d dh, d, dh, b bh); the semivowels; h; anusvāra; the third and the fourth yamas (anunāsika and I) are produced with the contraction of the glottis, emission of voice and with the soft articulation called 'ghosa'. The difference between 'śvāsa' and 'nāda' has been pointed out by most of the *Prātiśākhyas* and the *Pān*. Śik. The *Rk.Prā*. (xii.1.2) observes:

"The air, respiration or pulmonic emission, at times of vocal activity, becomes 'śvāsa' (breath) or 'nāda' (voice) according as the glottis is open or closed"

> "yathā trtīyastathā pañcamah" Pān. Ś.S.-6; Candra- 33. 6.

Like the third letters of the mute-series, the fifth letters are also produced with the contraction of the glottis, emission of voice and with soft articulation (ghosa)

"anunāsikyam esām adhiko gunah" Pān. Ś.S.-7 Candra 7. (wanting)

Nasality is the extra quality of the nasal consonants which are articulated both in the buccal cavity as well as the nose.

- "śādaya usmānah" Pān. Ś.S.-8; Candra (wanting) 8. ' $\acute{s}$  s and h' are fricatives as well as aspirates.
- "sasthānena dvitīyāh" Pān. Ś.S.-9; Candra (wanting) 9.

The second letters in the mute-series are aspirates resembling 's'.

- "hakarena caturthāḥ" Pāṇ Ś.S.-10; Candra (wanting) 10. The fourth letters in the mute-series are aspirates resembling 'h'.
- Semivowle (except 'r') are of two kinds: 11.
- sānunāsika and (2) niranunāsika, Pān. Ś.S.-8; Candra-50. (1)
- 12&13. 'r' and the fricatives have no 'savarna' letters. Two or more letters are called 'savarna' when they belong to the same class of sounds. Pāṇ Ś.S.-9-10; Candra (wanting) cp. Mahābhāṣya Dīpikā, p.184

# I.10.v. Vrttikāra prakaraņa

- 1 & 2. The commentators state:  $P\bar{a}n$ . S.S.VI-1; Candra 38-39 'a' has eighteen divisions; (1) hrasva, dīrgha, pluta, udātta, anudātta, svarita s $\bar{a}$ nun $\bar{a}$ sika, niranun $\bar{a}$ sika = 18
  - 3. So are i u etc.  $P\bar{a}n$ . S.S.-2; Candra 40.

- 4 & 5. '1' is not long  $(d\bar{\imath}rgha)$ ; hence it has twelve divisions. Pāṇ. Ś.S.-3-4; Candra 41.
- 6. Some Śākhās accept the long '1'; e.g. Klpaka. In those Śākhās 'I' has eighteen divisions. Pān. Ś.S.-5: Candra (wanting)
- 7 & 8. The diphthongs are not short (hrasva); hence, they have twelve divisions. Pān. Ś.S.-6-7; Candra 42.
- 9 & 10. The Satyamugri and the Rāṇāyaṇīya schools of the Sāmaveda recognise the short (hrasva) diphthongs; hence in these schools, diphthongs have eighteen divisions *Pān. Ś.S.* (wanting) Candra (wanting) cp. Mahābhāsya i.l.47.

# CHAPTER-II SURVEY OF THE ŚIKṢĀS OF RV, SV, & AV

#### CHAPTER-II

# A SURVEY OF THE ŚIKṢĀS OF ŖV, SV, &AV

# II.1.0 Śikṣās of the Rgveda (RV)

Besides general śikṣās, it is essential to have some ideas about śikṣās of other Vedas. In the śikṣās of RV, the Śaiśirīyaśikṣā, the Vyāḍiśikṣā, the Svaravyañjanaśikṣā are the significant ones. The most important of Rgvedicśikṣā literature is the Śaiśirīyaśikṣā.

# II.1.(i) Śaiśirīya śikṣā

It has been edited by T.P. Chowdhury and published in the Journal of *Vedic* studies. It's date and authorship are not known. It is attributed to śaiśira, one of the five important disciples of Śaunka, viz., *Mudgala*, *Gālava*, *Gārgya*, *Śākalya* and *Śaiśira*. It is concerned with the *Śaiśirīya* śākhā of the *RV*, with which the *Rk. Prāt*. is also concerned. It contains altogether 180 verses, written mostly in the *anuṣṭubh* metre. Nowhere it quotes the *Rk. Prāt*. Hence it is difficult to determine which of these two works, was earlier. Most of it's verses resemble those of the *Pān*, *Śik*. For illustration of it's rules, it quotes stanzas from the *RV*. Some of its original contributions to phonetics are:-

i) It specifies the places where the lips should be twice separated¹ and where they should be once² separated. In *su ūtaye* (RV.VIII.47. 1-18) bhrātuḥ putrān (RV. X.55.1), dhenuṁ somaḥ (RV. 1.91.20) pra suṣṭuti (RV. 42.14) yanmayobhū etc. the lips should be twice separated. In

<sup>1.</sup> dviro sthau tu vig thnīyāt (One should hold apart the letters containing two labial sounds)

<sup>2.</sup> sakṛdoṣṭhau vigṛhṇ̄yāt (One should hold apart the same having one labial sound)

'yuyotu yuyuvir' (RV.V. 50.3) the lips should be once separated i.e. 'yuyotu' and 'yuyuvir' should be pronounced as 'yotu' and 'yuvir' respectively, with the elision of 'y'. This tendency of dropping one of the two consecutive labials can be traced in M.I.L.

- ii) It deals with two extra varieties of pinda, viz., r + r, designated as 'vartivartula' (round like the wick) and r+y, designated as 'yoktrabandha'3 (binding by a rope) e.g.
  - *nirrtya* (*RV*. X.186.1) a)
  - supitrya (RV. X.115.6) b)

Just as the carrier wraps the grass by a rope and binds, likewise the Vedic pinda (junction) should be uttered, being wrapped and bound by the yakāra.

- It assigns four or six morās to pranava and acclaims that "He (iii) who knows it ought to be unbroken like a stream of oil and it's sound coming from below resembling the long continuous sound of the bells, is, as it were, an esoteric scholar of the Vedas"4
- (iv) In the enumeration of letters, it includes la (ল), nāsikya (h+nasal) and ranga, instead of the jihvāmūlīya, upadhmānīya and the pluta 1 (a). The intervocalic 'da' and 'dha' are designated as duḥṣpṛṣṭa (difficult to utter)
- (v) It has independent view on the vowel quantity of the anusvāra. "After a short vowel, the *anusvāra* as well as the short vowel

<sup>3.</sup> yathā yoktrena sarīvestya trnān badhnāti vāhakah/ evam vestya yakāreņa vaidikam piņdamucyate //

tailadhār āmivācchinnam divghghantaninādavat / vij ñyeyam pranavsy āgram yastam veda sa vedavit // Sai śir īya śikṣā

has only 3/4 of a morā, but after a long vowel, *anusvāra* has,1/4 of a mora and the long vowel has 1 and 1/4 morās"

- (vi) In the junction between two mutes, the first one is 'saindhṛta' (restrained), not 'śruta' (heard); because the first mute in the letter-junction is produced along with some faint vibration in the mouth cavity.
- (vii) In the junction between a penultimate 'h' and 'n', 'n' should be sounded prior to 'h'. This may be compared to metathesis in modern philology. The same rule also applies to the junction 's + n'. Metathesis in the junction 'h+n', is still found in M.I.L
- (viii) anudātta is designated as 'svara' and udātta, as nāda. It is a fairly complete śikṣā, discussing almost all the phonetic topics to be met with in other śikṣās.

#### II.1.(ii) Vyādi śikṣā

Vyāḍi, as a teacher of phonetics is mentioned in the Rk.Prāt (iii.23). His name also comes in the Mahābhāṣya, as the author of a grammatical work consisting of a hundred thousand verses called the saṅngraha.<sup>5</sup> His patronym was Dakṣāyaṇa and for this reason he is supposed to be a relative of Pāṇini or Dākṣiputra.<sup>6</sup> He is the first known teacher to have taught the various fictitious recitations of the Vedas which are described in the Vikṛtivallī edited by Satyavrata Samaśramī with a commentary by Gangādhara Bhattācharya. Other treatises on the subject have been composed at a much later date.

<sup>5.</sup> sangrahe etat prādhānyena parikīrttitam, Mahābhāṣya, i.1.1

<sup>6.</sup> Gold-stüker on Pāṇini, Pp. 209-11

Among these, the Jatāpatala by Thibaut, and the Astavikritivivitti by Yati Madhusudana<sup>8</sup> with a Bengali commentary, deserve special mention.

The vyādi śikṣā has been published in the Mysore Journal, edited by Keshav Sivaghanapathin (Bangalore). This śiksā is admittedly not the original vyāḍi śikṣā, for the author says that he has composed it after consulting the following works:

- Rk. Prāt with the commentary of uvata and pārśada vrtti. 1)
- 2) Jatālakṣaṇa by Narasimgha
- 3) Jaţāparibhāṣā
- 4) Vikītivallī
- 5) Aitareyāra nyaka
- 6) Upalekha
- Vikrtti Kaumudī 7)
- 8) Carana Vyūha Pariśista
- 9) Jayanta Kārikā
- 10) Svaraśiromanī
- 11) Svarānku sa sik sā
- Varna krama śiksā (12)

The *Prāt*. *Pra. Sik.* in its last section, also deals with the varieties of fictitious recitation. The *Vyāḍi śikṣā* deals with the following subjects:

(1) jatādi vikāra, (2) jatāprapāna krama, (3) jatāgatakrama

<sup>7.</sup> Das Jaṭāpaṭala: herous gigeben ubersetzet und mit Anmerkungen versehen von G. Thibaut, Leipzig, 1870.

<sup>8.</sup> Ed. by Prof. Madhavadasa Sankhya Tirtha, Calcutta-1939.

For illustrations of the various vikti-pāthas vide appendix to Satvalekar's edition of the Rgveda Samhitā.

samjñā, (4) śuddhā trikrama jaṭā, (5) anusvārakāra trikramādi, (6) vilomasamdhau vyākara ṇapramāṇa, (7) ṣatvādiṣu vyutkrama jaṭā, (8) okārasya aukāraprāptau jaṭā, (9) trikramādiṣu madhyagatapādānām āvartanam, (10) ananupūrvīsamhitāyām jaṭā, (11) pragṛhya okārāntapadānām jaṭā, (12) tryakṣarāntapragṛhyānām jaṭā, (13) pragrahe ukārasya vakārādeśatvam, (14) kvacit ādeśalopah, (15) pararūpa pradaršanam, (16) sāmyādiga ņānte su ja ṭā, (17) pluti su ja ṭā, (18) vilome' pi saptasvaritavidhānam, (19) svarita svarānām nāmāni, (20) kampavidhiḥ, (21) kampeṣu mātrākālah, (22) kampanimittāni, (23) mālādivikītih.

#### II.1. (iii) Svara vyañjana śikṣā

It is a short treatise of about three pages. The object of the work is to show when 'r' is a consonant and when it is a vowel. The work follows the Rk.Prāt. For it quotes in full two verses<sup>10</sup> from the latter. It also uses throughout the terminology of Rk. Prāt., such as various terms of sandhi, niyata, bhugna, kṣaipra etc. (Rk.Prāt. II.3). The work is post-Pāṇinian as it quotes Pāṇini.11 The treatise is divided into six sections:

The first section points out cases in which 'r' of 'ti' is a consonant. In the various phases of riphita sandhi in which visarga may either be traced to 'r' or can be changed to 'r' (Rk.Prāt. IV.9). The 'r' is a consonant e.g. "prātarindram" where 'r' of the syllable 'ri' is a consonant. It will also be a consonant in "paripanna sandhi" (Rk. Prāt. IV. 5) where 'm' is changed into anusvāra before 'r' or a spirant. e.g. hotāram ratnadhātamam (RV. I.i.1) where 'r' following anusvāra is a consonant.

<sup>10.</sup> Rk. Prāt. iv. 8-9

<sup>11.</sup> Rk. Prāt. vii. 4.28 and vi. 1.168

The sandhi in which 'r' is pronounced with roll in the throat is riphita and the sandhi changing 'm' into anusvāra is known as paripanna sandhi. On the other hand, 'r' as a vowel cannot allow an anusvāra before it. e.g. samtubhih. 'r' is also a cononant before 'y'. 12 The treatise in the third section quotes Pāṇini<sup>13</sup> according to which the final 'r' of a verb is changed into 'ri' before y.

'r' in various forms of the numeral 'tri' is a consonant except in tṛtīya and tisṛ. The śikṣā also enumerates a list of words in which 'r' is a consonant and in which it is likely to be confused with 'r' as ripu, krivi krimi, riśādas etc.

The second section specifies cases in which 'r' is clearly a vowelviz. after an inital group of consonants or before a consonant group, of which the last is the penultimate sound of the stem. <sup>14</sup> The śiksā mentions a couple of negative conditions, which are necessary for 'r' being a vowel:

- 'r' should not be preceded by a visarga that cannot be (i) changed into a hissing fricative.
- (ii) It should not be preceded by an *anusvāra*, as already mentioned above. But it states that a hiatus or a semivowel may precede it.

Section-iii enumerates some further details of cases in which 'r' is a consonant. Thus 'r' in 'martya, marda, resana and rise' is a consonant

<sup>12.</sup> yakāre ca riśoktau ca/

<sup>13.</sup> vii. 4.28

<sup>14.</sup> vikrame nāpyanusvāraḥ rkāraḥ sa sphuṭah svaraḥ/ samyogācca paraḥ pūrvaḥ samyoge vyañjanopadhaḥ// Section-ii

and so is the 'r' in 'bhriyanta' and the author quotes Pānini15 in this connection. In conclusion, the Śikṣā makes an interesting observation that 'r' both in 'r' and 'r', when not preceded by any consonant and when followed by a consonant is a concentrated 'r' (samcito rephah).

Thus 'r' in 'rṣak', 'trita' and 'riśādas', 'rju' and 'rmjaśe' is a doubtful consonant (samdigdha vyañjana) and the author calls it concentrated 'r'. According to the author's theory, 'r' in the word 'samsknta', preceded as it is by a consonant-group is a clear vowel r, but 'r' in 'rju and rmjaśe' is a concentrated r.16

#### II.2.0 $\dot{S}ik s \bar{a}s$ of the AV

#### Māndukī Śiksā II.2.(i)

It has been described by Prof. Haug and by Prof. Weber in the appendix to his essay on the Pratijñā Sūtra.17 It has been critically edited by Pandit Bhagavad Datta. 18 In the treatment of subject matter it resembles the  $Y\bar{a}j$ .  $\dot{S}ik$ . and the  $N\bar{a}r$ .  $\dot{S}ik$ . It is related to the AV, for it contains a large number of quotations from that veda, which Pandit Bhagavad Datta has collected in his index. The name 'Mandūka' occurs twice19 in the body of this treatise, and is widely known in the vedic literature.<sup>20</sup> This śikṣā

<sup>15.</sup> Astādhyāyi, viii. 4.28

<sup>16.</sup> rjuri mjaseriti cātha ityabhyāsasandigdham......rṇāni ririgiti samcito rephaḥ, ṛṣak trita iti samcito rephah; risyah risādasa iti samcito rephah, Section-iii

<sup>17.</sup> Uber ein zum weiseen yajus gehoriges phonetisches compendium, das Pratij ñās ūtra, p. 106. &

Abh and lunger der konigohen Akademy der wisenshaft zu Berlin (1871)

<sup>18.</sup> Lahore (1921)

<sup>&</sup>quot;trayo madhyā nivartante maṇḍūkasya mataṁ yathā" Maṇḍu Śik.ii.3. "maṇḍūkena kṛṭāṁ śiksāṁ viduṣāṁ buddhidīpanīm" Ibid, Xvi. 16

<sup>20.</sup> cp. (i) 'dhak ca māndūkāt' (Pān.iv. 1. 119)

<sup>(</sup>ii) 'iti ha smāha ḥrasvo māṇḍūkeyaḥ' (Aita.Ārn. Iii. 1.5)

<sup>(</sup>iii) 'māṇḍūkeyasya sarveṣu praśliṣṭeṣu tathā smaret' (Rk.Prāt. iii.14)

<sup>(</sup>iv) 'māndūkeyarin tarpayāmi' Atharva pari sista. III. 4.46

consists of sixteen chapters and deals with all the important phonetic topics elaborately.

It is particularly interested in accent common to all the Vedas and seems to have further developed the teachings of  $N\bar{a}r$ .  $\dot{S}ik$ . on accent. It says that manual gestures are invariably necessary in Rk. Yajus and sama recitations. According to this  $\dot{s}ik.\bar{s}\bar{a}$ , the first two and last two notes of the musical scale are sung in the vedas. In several places it has closely followed the  $N\bar{a}rad\bar{i}$  and the  $Y\bar{a}j$ .  $\dot{S}ik$ . which Bhagavad Datta has shown in his foot notes.

As regards its date, Verma is of opinion that it is later than the  $N\bar{a}r.\dot{S}ik$ . For it contains a good deal of material common to some of the  $\dot{s}ik.\bar{s}a\bar{s}$  of the white Yajurveda- e.g. prounciation of 'y' and 'v' in different positions, <sup>23</sup> the reference to the woman of  $saur\bar{a}stra$  pronouncing the ranga vowel<sup>24</sup> etc. Therefore, it is either contemporary with or posterior to the  $Y\bar{a}j.\dot{S}ik.$ , of  $10^{th}$  century A.D.<sup>25</sup>

# II.2.(ii) Dantyo sthyavidhi h

This is a phonetic treatise belonging to the AV. It has been critically edited by Pandit Ramagopala Sastri. The word should, in fact be Dantyoṣṭhyavidhi but the Caraṇavyūha (Atharvaveda Pariśiṣta 49.4.8) and all the manuscripts of the text read it, however, as Dantyoṣṭhyavidhi. After paying homage to the venerable Atharvan, the author in the 2<sup>nd</sup>

<sup>21.</sup> hastahīnam......ṛgyjuṣsāmabhir dagdhe etc. Māṇḍ. Śik. III. 3

<sup>22.</sup> prathamavantimau caiva vartante chandasi svaraḥ/ trayo madhye nivartante māṇḍūkasya mataṁ yathā// verse 17

<sup>23.</sup> *Mānd Śik*. viii.6-7

<sup>24.</sup> *Māṇḍ Śik*. x.9

<sup>25.</sup> S.Varma, Critical Studies in the Phonetic Observations of Indian Grammarians, p.52

<sup>26.</sup> Lahore (1921)

verse points out that scholars are always left in doubt while determining whether 'b' is dental or labial (chandasyadhyayane prāpte viduṣāmatha dhīmatām, bakāre samśayo nityam austhyam dantyamiti sma ha). Therefore, the author has attempted to fix the places where 'b' is to be pronounced as labial.

- (i) It is labial when followed by the letter 'bh' in a word without 'avagraha' e.g. bibhītah (AV. II.15.1) bibhratīḥ (AV.III.14.3) etc.
- (ii) The following words, being accented on the first syllable are labials. e.g. bala (AV. I.35.3), bāṇah (AV. VI.105.2) bepaya (AV. XII.3.13)
- The following words in all cases (vibhakti) are labials: baladā (iii) (AV. IV.2.5), abalānugra (AV. III.19.7), abaladhanvā (AV. III.19.7) balāsam (AV. V.22.11) and bāhu (AV. IV.2.5).
- (iv) The following words have the second 'b' as labial: vaibādha (AV. III.6.2), devabandhum (AV. IV.1.7) vibaddhah (AV. V.20.2), vibandhuşu (AV. XVIII.2.57) and vibabādhe (AV. VIII.9.6.)
- The following words, accented on the first syllable are labials (v) e.g. alābu (AV. VIII.14.14),  $b\bar{a}jah$  (AV. VIII.6.3) and  $b\bar{a}na$  (AV. X.2.17).
- (vi) Brahma (AV. I.10.4) in all its connotations is labial.
- Chubukāt (AV. II.33.1), baskaye (AV.IX.14.6), bayaḥ (vii) (AV. XX.129.15) etc., are labials when they occur at the end of a sentence.

- (viii) The conjugational forms of bibheda (AV. IX.14.6); bibhiduḥ (AV. XX.77.6) etc. are labials.
- (ix) bale (AV. II.29.1) is labial and so on.

#### II.3.0 Śikṣās of Sāmaveda

#### II.3.(i) Nāradī śikṣā

The  $N\bar{a}r$ . Sik. is one of the oldest and the most profound  $sik.s.\bar{a}s$ . The author says "I shall explain the nature of accents employed in the  $S\bar{a}maveda$  in this short but comprehensive treatise". The author regards his work as the foremost *vedānga* which deserves the attention of scholars in the field of Vedic studies. Besides the treatment of musical accents, it also deals with general phonetic subjects such as doubling syllabication, varieties of the circumflex accent, yama, nasalisation etc. As regards the chronology of the treatise exact details are unknown, except it's authorship which has been attributed to Nārada. Therefore it's date should be fixed from external evidence. The Saingīta Ratnākara, a treatise on music, quotes the authority of Nārada on the gāndhāra grāma which has been dealt with in the Nār. Śik. The Saṁgīta Ratnākara also states the opinion of Nārada on the musical modulations which have been described by the Nār. Śik. It is probable therefore, that the author of the Samgīta Ratnākara, here refers to the Nār. Śik. The probable date of the Saingīta Ratnākara, is the thirteen century A.D. The above data indicate that the  $N\bar{a}r$ .  $\hat{S}ik$ . was written earlier than the Samgīta Ratnākara.

Further, the Nār. Śik. quotes authorities such as Tumburu, Vāsiṣṭha

sāmaveda tu vakṣāmi svarāṇām caritam yathā/ alpagrantha m prabhūt ārtha m śravya m vedā ngamuttamam// Nār. śik., I.2.i

tāna-rāga-svara-grāma-mūrcchanānārn ta laksanam/ 28. pavitra m pāvana m panya m naradena prakīrtitam// Nār. śik., I.2.ii

and Visvāvasu to state that they too, had difficulty about the nature of accentuation in the Sāmaveda. The names of these teachers are also mentioned in the Taitt. Prāt. and the Mbh. Hence it should be posterior to these two works. The  $N\bar{a}r$ .  $\hat{S}ik$ . has been accompanied by a commentary named 'Śikśāvivaraṇa' written by Bhatta Bhaskara. This commentary is of little use because, instead of throwing some light on the subject it actually makes it more obscure.

#### II.3.(ii) Contribution to the study of music

Among all the  $\dot{sik}\dot{sas}$ , the  $N\bar{a}r$ .  $\dot{Sik}$  is singularly important for its contribution to music. Some description of its seven musical notes is found in the Mānd. śikśā where the description being incidental to that of the three main accents appears to have been borrowed from the  $N\bar{a}r$ .  $\dot{S}ik$ . A few observations of this  $\dot{s}ik\dot{s}\bar{a}$  on music are:

The knowledge of tāna (tone), rāga (mode), svara (note), grāma (gamut) and mūrchanā (cadence), is sacred and purificatory. There are seven kinds of "svara", twenty-one kinds of "mūrchanā" and forty-nine kinds of "tāna" This may be regarded as a brief and exhaustive account of the different constituents of music.

The seven kinds of "svaras" are: (1) sadja, (2) rṣabḥa, (3) gāndhāra, (4) madhyama, (5) pañcama, (6) dhaivata, (7) and niṣāda. The three kinds of grāma are: (1) sadja (2) madhyama, and (3) gāndhāra; 'sadja' is born from the earth; 'madhayama', from the atmosphere and 'gāndhara' from heaven. The grāma modes depend upon svara-modes and change accordingly. Twenty tones are dependent on the 'madhyama grāma', fourteen on the 'sadja grāma' and fifteen on the 'gāndhāra grāma'. The seven mūrchanās belonging to the gods are:

- 1)  $nand\bar{\imath}$  2)  $viś\bar{a}l\bar{a}$
- 3)  $sumukh\bar{i}$  4)  $citr\bar{a}$
- 5) citravatī 6) sukhā
- 7)  $bal\bar{a}$ .

The seven mūrchanās, which belong to the manes are:

- 1) āpyāyinī 2) viśvabhṛtā
- 3)  $candr\bar{a}$  4)  $hem\bar{a}$
- 5) kapardinī 6) maitrī
- 7) bārhatī

The seven  $m\bar{u}rchan\bar{a}s$ , which belong to the seers are: .

| 1) | uttaramandrā | produced | from <i>ṣaḍja</i> |
|----|--------------|----------|-------------------|
| 2) | abhirudgatā  | ,,       | rsabha            |
| 3) | aśvakrāntā   | ,,       | gāndhāra          |
| 4) | sauvīrā      | ,,       | madhyamā          |
| 5) | hṛṣyakā      | "        | раñсатã           |
| 6) | uttarãyatā   | . ,,     | dhaivata          |
| 7) | rajanī       | <b>"</b> | niṣāda            |

The meaning of these terms in the present context, has not been explained either by the author or by the commentator of  $N\bar{a}r$ . Sik.

Gandharvas are fond of the seven  $m\bar{u}rchan\bar{a}s$  belonging to the gods; yaksas are fond of those belonging to the fathers and men are fond of the seven  $m\bar{u}rchan\bar{a}s$  belonging to the seers. The sadja pleases the gods, rsabha the seers,  $g\bar{a}ndh\bar{a}ra$  the fathers, 'madhyama', the gandharvas, ' $pa\bar{n}cama$ ', the gods, seers and the fathers; ' $nis\bar{a}da$ ', the yaksas and 'dhaivata' pleases other beings.

'Niṣāda' rising from '*ṛṣabha*', obstructed by '*ṣadja*', accompanied by '*dhaivata*' and '*pañcama*', and falling into '*madhyama*' is called

'sandava'. The exact meaning of 'sandava' has not been explained by the commentator who merely says that 'sandava' is so called because of the absence of 'gāndhāra'. Pañcama being obstructed by 'gāndhāra' accompanied by 'rṣabha' and 'niṣāda' and falling into 'madhyama' has also been designated as 'sandava'. 'Madhyama' is so called due to the predominance of 'gāndhāra', due to the constant repetition of 'niṣāda' and due to the weakness (comm.. 'sakrt uccāraṇa') of 'dhaivata'. The 'madhyama grāma' is produced when in sadja and rsabha, the remaining five musical notes take refuge. In 'sadja grāma', the 'niṣāda' is pronounced with slight contact of the articulator, the 'gāndhāra', with excessive contact and the 'dhaivata' with tremor. When the 'niṣāda' consisting of four śrutis occurs in sadja, the intervening soft sound depending on pañcama is called kaiśika. The 'kaiśika madhyma' is a particular grāma mode; so called because *kaiśika* is joined with all notes starting from 'madhyama'. The soft and melodious note rising from the constant repetitions of "pañcama" is called 'kaiśika' by Kaśyapa. The Nār. Śik, derives 'gāndhāra' from 'Gandharva' with the nominal suffix 'a'; 'gā' indicates vocal music; ' $dh\bar{a}$ ', the art of music and ' $r\bar{a}$ ' indicates instrumental music. Thus the word 'gāndhāra' exites love for music.

The  $N\bar{a}r$ : Sik, gives the etymology of the seven musical notes :

- (i) The 'sadja' is so called because it is produced through the six vocal organs, viz. 1) nose, 2) glottis, 3) lungs, 4) palate, 5) tongue and teeth. It is the sound of the peacock.
- The 'rsabha' is so called because it resembles the bellowing (ii) sound of the bull.
- The 'gāndhāra' is so called because, in it's mode of (iii)

articulation, it brings fragrance to the nose. It is the sound of the goat.

- The 'madhyama' is so called because, in its mode of (iv) articulation, air is transformed into a deep sound (mahānāda) while reaching back the navel. It is the sound of the curlew or osprey.
- The 'pañcama' is so called because, five vocal organs are (v) involved in its mode of articulation, viz. 1) navel, 2) lungs, 3) heart, 4) glottis, and 5) head. It is the sound of cuckoo.
- The 'dhaivata' is so called because it suffers increase due (vi) to singing in high pitch in the pañcama coming between sadja and madhyama, (comm.. sadjamadhyagatasya pañcamasthoccagītitvāt) and decrease in cadence, according to the gamut, like the moon increasing in the bright fortnight and decreasing in the dark. It is the sound of the frog.
- The 'niṣāda' is so called because it affords shelter to (vii) other musical notes. Like the sun outshining stars in daytime, the 'niṣāda' outshines the remaining musical notes. It is the sound of the elephant.

Except 'dhaivata and nisāda', each of the remaining five notes, has contact with five vocal organs; the 'niṣāda' contacts all the organs of articulation and the 'dhaivata' though rising from the forehead, has contact with all the vocal organs. On the place of articuation of the seven notes, the Nār. Śik. futher observes:-

The "sadja" rises from the glottis, the 'rsabha', from the head, the 'gāndhāra', from the nose, the 'madhyama', from the 'lungs, head and the glottis', the 'dhaivata' from the forehead and the 'nisāda' from all the vocal organs. The Nār. Śik. identifies the seven notes with the sounds of different fauna. The peacock utters 'sadja', the cow utters 'rṣabha' the goat (or lamb) utters 'gāndhāra' the curlew (woodcock) utters 'madhyama', the cuckoo utters 'pañcama' (at the vernal season; the horse (or frog) utters 'dhaivata' and the elephant utters 'niṣāda'.

The Nār. Śik. identifies the notes of the sāma-chanters with those of the flute: The prathama, dvītiya, tītiya, caturtha, pañcama, sastha and saptama notes of the sāma-chanters are respectively identified with the madhyama, gāndhāra, ṛṣabha, ṣaḍja, dhaivata, niṣāda and pañcama notes of the flute.

It gives an interesting etymology of the word 'gāndhāra' "gām dhārayati sannihitam karotīti gāndhārah.' It is called 'gāndhāra' because it brings the cow to the spot. In this context, it states that even the wish-yielding kāmadhenu is attracted by the gāndhāra note. It gives the names of different gods singing different notes; 'sadja' is sung by Agni; 'rṣabha' by Brahmā; 'gāndhāra' by Soma; 'madhyama' by Viṣṇu; 'pañcama by Nārada and both dhaivata and niṣāda, by Tumburu.

The Nār. Śik. speaks of two kinds of lute:

- (1)the bodily lute (gātra vīnā) and
- the wooden lute (dāravīvīnā). (2)

The mode of sāma-chanting should resemble the flight of the falcon in the sky. The movement of 'sruti' inside 'svara' has been compared to the movement of a fish inside water. The 'sruti' is latent in 'svara' in the same way as the ghee is in curd, or the fire, in wood. And just as some amount of effort is necessary to produce either ghee or fire likewise, 'śruti' is produced with effort, from 'svara'.

The Nār. Sik. states six merits and six demerits of 'karṣaṇa' (dragging). The six merits of 'karsana' are: 29

- 'svarasamkrama', modulation of two consecutive notes. (1)
- 'svarasandhi' junction of two notes. (2)
- 'anulbaṇa', regular measure. (3)
- (4) 'avichinna', continuity.
- 'sama', right proportion. (5)
- (6) 'suksma', subtlety.

The six demerits of karşana are:

- (1) 'anāgatā' denotes the dragging which has not commenced from the first tone
- (2) 'atikrānta', transgressed dragging.
- 'vicchinna', denotes the dragging that has eliminated the (3) first mātrā.
- (4) 'viṣamāhata' denotes dragging with tremor.
- 'tanvanta' denotes dragging beyond three moras. (5)
- 'asthitānta' denotes dragging below three moras. (6)

When a musical note transgresses its own place of articulation, the sāma chanters call it 'visvara', but the lute-players call it 'virakta'.

Niṣāda may be identified with 'mandra', the low or base tone of the voice as opposed to the 'madhyama' and 'uttama' (middle and high).

<sup>29.</sup> svarāt svaram samkāmas tu svarasandhimanulbanam/ avicchinnam sama in kury āt s ūksma in cchāy ātapopamam // I.6.17 anāgatamatikrāntam vicchinnam visamāhatam/ tanvanta masthitāntaṁ ca varjayet kar ṣaṇaṁ buddhaḥ// I.6.18

'mandra' takes the comparative as well as the superlative degree (i.e. mandratara, mandratama). Niṣāda has been characterized by three attributes:

- (1) 'aparvata', without any knot or joint. (comm. It is called 'aparva' because it is not different from 'mandra').
- (2) 'asamjñatva', without any designation.
- (3) 'avyayatva', indestructibility. (comm. It is indestructible because it is without number, gender and case).

Gods are delighted with 'krusta', men with 'prathama' animals with 'dvitīya', gandharvas (divine singers) and apsarasas (heavenly nymphs) with 'tntīya', birds and manes with 'caturtha', devils, demons and imps with 'mandra', movables and immovables, with 'atisvara'. Thus all beings in the creation are delighted with the musical notes of the sāmaveda.

The Nār. Śik. mentions five kinds of 'śruti'.

- (1) *dīptā* (shining)
- (2) *āyatā* (extensive)
- (3) karuṇā (pathetic)
- mrdu (soft) and **(4)**
- (5) madhyamā (medium)

'Dīptā' occurs in the 'mandra', 'dvitīya' and 'caturtha' notes, 'karuṇa' occurs in the 'atisvara', 'tṛtīya' and 'kṛsta' notes. The remaining śrutis, i.e. 'mrdu', 'madhyamā' and 'āyatā', belong to the dvitīya note. The 'dvitīya', being followed by the 'trtīya' gives rise to 'āyatā' and being followed by the 'caturtha', gives rise to 'mṛdu' śrutis. The 'dvitīya' without being followed by any note, gives rise to 'madhyamā' śruti. Followed by 'Kruṣṭa' it gives rise to 'dīptā' śruti. The 'prathama' being followed by the caturtha gives rise to 'mrdu' śruti and is followed by the 'mandra', it gives rise to 'dīptā' śruti which often occurs in a saman in pause. The Nār. Śik. prohibits' śruti,

- (i) which does not occur in pause.
- which is intervocalic (ii)
- (iii) which occurs in a short or long vowel and
- which occurs in 'ghuta'. (iv)

Probably 'ghuta'30 is a designation of the palatal 'i' in two forms as āi and āu.

The restriction operates in five places.

- (i) The palatal 'i' becoming 'āi'
- (ii) The palatal 'i' becoming 'āu'.
- The palatal 'i' becoming the final of a word and joined (iii) with the three sibilants-s,  $\dot{s}$  and  $\dot{s}$ .
- The 'dīptā' belongs to the udātta, it also occurs in the (iv) svarita, 'mrdu' occurs in the anudātta. The Nār. Sik. mentions three kinds of 'svarāntara'.
  - (1) ārcika, relating to a stanza,
  - (2) gāthika, relating to a prose passage and
  - (3) sāmika, relating to a song; 'ārcika' is ekantara, ʻgāthika' dvyantara and ʻsāmika'tryantara.

<sup>30.</sup> dvividhā gati h padānta h sthitasandhi h saho smabhi h / pañcasvete șu sthāne șu vij ñyeya m ghuțasa ñjitam// Năr. śik., I.7.16

The 'prathama' is employed in the katha, kalāpa, āhvaraka and taittirīya recensions of the KYV. It is also employed in the RV. and the SV. The āhvarakas employ the tṛtīya, prathama, and kruṣṭa notes, the taittirīyas employ the 'dvitīya', 'tṛtīya', 'caturtha' and "mandra" notes. The tāndins and bhallavins (i.e., in the Pañcavimsa Brāhmana and the Kauthuma Śākhā of the SV) employ the 'dvitīya' and 'prathama' notes. The Vājasaneyins in the Śatapatha Brāhmaṇa, also employ the dvitīya and prathama notes.

The Nār. Śik. concludes the treatment of music with the statement that a person who knows the mode of sāma-chanting according to the rules specified above, is fit to teach even the masters of phonetics.

# II.3.(iii) The Gautamī śikṣā

This is otherwise known as the samyogaśrikhalā śiksā. The author regards this treatise to be the very soul of the SV. It is called 'Srnkhalā' (chain) because it fetters the SV. It is ascribed to Gautama, who according to the Arşeya Brāhmana was the first seer of the SV. It has made a close study of the letter junction and it states that there exists no letter junction with more than seven consonants. It refers to a Prātiśākhya in which junction (yu) 'nnksksv' is said to occur, but no such junction can be traced in any of the extant Prātiśākhyas. This may suggest that it was posterior to some extinct Prātiśākhyas.

The letter-junction in the Gautamī Śikṣā.

<sup>31.</sup> esa sahasra varttmā nānāvartir- vibhūsita

samyogaśrnkhalā nāma sāmavedanibandhanāt Gau. Sik. 11.7

# (i) Junction of two consonants

#### (a) tulya yoga:

tas, atte

t + t

yannamasya

n + n

tammnye

m + m

svargallokāt

l+l etc.

#### (b) atulya yoga:

accha

c + ch;

śuddha

d+dh;

varsa

r + s

vihrutam

h+r etc.

#### (ii) Junction of three consonants:

akksaram

k+k+s

brahmma

h+m+m

dīrggha

r + g + gh

maddhya

d + dh + y etc.

# (iii) Junction of four consonants (without yama)

'udannnyāu'

$$n+n+n+y$$

kārşşma

$$r + \varsigma + \varsigma + m$$

yattsthira

$$t + t + s + th$$

appsvantara

$$p+p+s+v$$
 etc.

# (iv) Junction of four consonants (with yama)

'aggni'

$$g + g + yama + n$$

'yajjma' 
$$j + j + yama + m$$

'daddhn
$$\tilde{a}$$
'  $d + dh + yama + n$ 

'grabbhn
$$\bar{t}$$
ta'  $b + bh + yama + n$  etc.

# (v) Junction of five consonants (without yama)

'ayusstryaha' 
$$s+s+t+r+y$$

'sannksnut' 
$$n+n+k+s+n$$

'tasminntsväta' n+n+t+s+v

p+p+s+n+y'visvappsnya'

#### (vi) Junction of five consonants (with yama)

'buddhnya' 
$$d + dh + yama + n + y$$

'duhsvappnyam' p + p + yama + n + y

'mattnya' t + t + yama + n + y

ʻsakthnya' k + th + yama + n + y etc.

# (vii) Junction of six consonants

'kārttsnya' r+t+t+s+n+y

'sarggdhmavāha' r + g + g + dh + yama + m

ʻdhakkmvya' k + k + yama + m + v + y

# (viii) Junction of seven consonants

There is only one junction with seven consonants yannksksvau ..... $\dot{n} + \dot{n} + k + s + k + s + v$ . Gautama has declared that there is no junction with more than seven consonants.

# II.3.(iv) The Lomaśi śikṣā

This śiksā has been attributed to Garga. The Jātakapaddhati

enumerates a list of authorities on astronomy, among whom Garga and Romaśā have been mentioned. Again, Romaśā as the daughter of Brhaspati occurs in the Brhaddevatā (prādāt sutām romaśām nāma...brhaspatir bhāvayavyāya rājñe iii.156). The connection of Garga with the SV. may be suggested by the fact that 'Gargya' said to be one of the thirteen teachers of the SV. (Caraṇa vyūha, p-47). Hence the authorship of this work has been attributed to Garga.

Some of its original contributions to phonetics are:- it speaks of the short, long and increased varieties of the vowel. The sāma chanters pronounce them with a sound resembling that of a mrdanga. It gives an obscure etymology of 'kampa'. It states that in 'kampa' the vowel is divided into two parts by the consonant. The vowel is affected in the forepart and supported in the hindpart. Therefore being afraid, it trembles, (svaro bhīta stu kampate). It also states that the pronunciation of long kampa should resemble the sound of bells (prayoge ghantatālavat). The colour of 'ranga' resembles the colour of the dove (pārāvatasavarna). It states that in pronouncing 'kiţkiḍākāra', half of 'k' and 't' should be articulated in the jaws by the tip of the tongue.

Accent in a conjunct letter belongs neither to the preceding nor to the following syllable; nor to the consonant nor to the *mātrā*. Hence the accent should be employed in the junction between the preceding half of the vowel and the following half of the consonant. In a pause, if the 'madhyodātta' and 'antodātta' are confused, one should regard it as 'antodātta' and 'nīca' are confused, one should regard it as 'antodātta' provided the suffix is accented.

The same 'karana' is prescribed for a multitude of 'u' vowelsshort, long or increased. If the long vowel occurs in the middle of this

multitude, 'karaṇa' is confined to the initial and the final letters, the middle ones being eliminated. If the long vowel occurs at the end of this in the initial letters, karana occurs twice, being followed by 'u'. It is to be designated as 'adimadhyanta' e.g. 'vayo śukrah': If, in the initial letters, 'karana' occurs once, being followed by 'u' it is designated as ādāvantaḥe.g. 'vayo śukro'. If a non-conjunct letter is joined with 'u', there should be 'repetition of 'karana'. The 'karana' in consonants either joined with 'u' or not, should occur twice, as also in 'au' and 'v'. When the labial vowels (i.e. u and au) are joined with conjuncts, there should be 'sakıt karana' (karana occurring once). Elsewhere, there should be 'dvihkarana' (karana occurring twice).

In cerebralization of the dental 'n' and 's' into n and s, sandhi is prohibited in the pause. The Lomaśī śikṣā. defines pranata as a particular kind of accentuation in which one-fourth of a mātrā is indicated on the thumb, index and the middle fingers. If this indication is made once, the accent is called 'pranata', otherwise it is 'nīca'. The following kinds of śruti, viz. 1) dīptā, 2) āyatī 3) ūtā (4) prahūmasā (5) sivāvarā (6) mahī and (7) nityā have been enumerated.

This *Siksā* describes the processes of exhalation and inhalation in the mode of sāma chant. It distinguishes between the mute d or dh and the liquid d or dh (pādapūrvā ye dakārāḥ pādāpūrvā stathaiva ca, da iti caiva vij ñeyā dadhakārepyayam vidhih). It deals with the syllabication of r. If 'r' precedes 'y' or 'v' in the letter junction, it should belong to the preceding syllable e.g. 's ūrya' 'p ūrva' etc. But if the junction takes place at the end of a stanza (virata) it should belong to the following syllable e.g. 'taro harya'.33 It states that 'h' joined with 'r' (whether preceding or following), and with the preceding amusvāra, is doubled.

The sibilants after anusvāra are not doubled, but after semivowels, are doubled. 'anu' denotes an interval of time within which a particle in the sun's ray becomes visible. Four such 'anus' makes a mātrā. In the heart, speech has the duration of one 'anu' in the glottis, of two 'anus' in the tip of the tongue, of three 'anus' and speech released, has four 'anus' or one *mātrā*. The *Lomaśī śiksā* shows the elision of consonant in words such as rāndra, svindra, accha etc.

<sup>34.</sup> yavau tu rephasamyuktau virate ca bhavedyādi / parāṅgaṁ tadvijānīyāttaro haryeti lakṣaṇam//

# **CHAPTER-III**

A SURVEY OF THE ŚIKŚĀS OF YAJURVEDA

#### CHAPTER-III

# A SURVEY OF THE **SIKSAS** OF **YAJURVEDA**

#### III.1.0 The Recensions of Yajurveda

YV, once existed in as many as 101 śākhās as it is evident form the Mahābhāsya and other ancient texts. Of these 101 śākhās, KYV has 86 śākhās and ŚYV has 15 śākhās. Out of these two divisions of the original YV, five of the KYV and two of the ŚYV are existing today. They are as follows:

- 1. Taittirīya samhitā
- 2. Maitrāyaņī samhitā
- 3. Kāṭhaka saṁhitā
- 4. Kapiṣṭhala kaṭha saṁhitā
- 5. Caraka samhitā of the Kṛṣṇa variety
- 6. Vājasaneyī kāņva samhitā
- 7. Vājasaneyī madhyandina samhitā of the śukla variety.

# III.1.1 Śikṣās of the taittiriya school

On the average, the śikṣās of the Taittirīya school are superior to those of the other. In precision of thought and in exact observation of linguistic phenomena, unlike other Śikṣās, they throw a good deal of light on the choronology of Indian phonetic literature. From the data available in these treatises, one can prove how some of the śikṣās are definitely later than the prātiśākhyas. Besides they try in every way to obey the duty in teaching the recitation of the vedas while, the

rest very often lose themeselves in trivial prescriptions. They also point out that of all Vedic schools, that of Taittirīyas was at the earliest date concerned with the teaching of śikṣās. The Vyā. śik. which belongs to this school surmounts by far, all the other śiksās in content as well as in extension. The fact that it contains a systematic and exhaustive representation of all the changes occurring in the construction of the samhitā and pada texts assures it the best place among all related treatises which neglect this territory completely. It has no doubt lifted itself to the state of prātiśākhya. It's high significance has been recognised and given expression to in the position which indigenous tradition ascribed to it. The Vyā śik. supplies us with a new tool for the explanation of *Prātiśākhya* for, being older than the *Tribhāsyaratna*, it serves as an excellent guide for the study and understanding of the rules embodied in the Taitt.Prāt.

#### III.1.2 Vyāsa šiksā

The Vyā. śik. had been authored by Vyāsa, and belongs to Taittirīyaśakhā of the kṛṣṇayajurveda. It spreads over 28 chapters mainly relating to the phonetics of krsnayajurveda. It occupies a prominent position amongst the 9 primary śikṣās and 6 secondary śikṣās. The monumental efforts of Lüders, who edited Vyā. śik. in original contains detailed description of each of the varnas, their names and definitions. He no doubt followed Veda Taijasam Vyākhyā of Pndt. Süryanārāyn Surāvadhānī and sarva lakṣaṇa mañjarī by Brahmashri Raja Ghnapathi in the first decade of the present century. But unfortunately these books are now out of print and researchers are facing lots of problems due to its non-availability. This śikṣā has been composed Choukhamba Sanskrt Sansthan, Varanasi has published

one Vāj. Sik. edited by Acharya Sripattabhirana Sastri with the above two commentaries precisely, specially in metres. The first chapter deals with treatment of nouns. The second chapter deals with the treatment of restrained vowels. All the definitions are given in chapter three. The fourth to fifteenth chapters describe mainly elongation (dīrghatva) the bringing in of something (āgama), extinction (lopa) (vikāras) ṣatva, natva, repha, aspirates (visarga) yatva, phonetic combinations (sandhi) discrimination (anaikya) and utilization (aikya) respectively. The sixteenth chapter describes the nature of accents and there an exposition of accents (udātta) grave (anudātta) circumflex (svarita) and pracaya is done. A combiantion of both udātta and anudātta occurs in circumflex accent which had several types e.g. abhinihita, kṣipra, praśiṣṭa, nitya, tairo vyañjana. Seventeenth chapter contains the euphonic combination of accents and vowels. The eighteenth chapter describes the locations for the accents in order, the grave accent is placed in first line of the last finger, the circumflex occupies the last line of the third finger, pracaya is the middle line of the middle finger. Acute is located in the middle line of the index finger. The principles of doubling is given in ninteenth chapter. Twentieth chapter brings about components occupying the vowel position. Svarabhaktis are depicted in the 22nd and 23rd chapter. Types of svarabhaktis are also described such as harinī, hamspāda, hastinī, karenu, hārita, karvini and savatantra. Twentyfourth depicts the place of articulation (sthāna) and its efforts (prayatna). Twentyfifth depicts protracted accents. Twentysixth depicts discussion of labials. Twentyseventh depicts timefactor and the last chapter concludes with the resultant effects of pronunciation.

It is available to us in four different editions. 1 It is the longest and certainly one of the most important and in several respects more interesting among śikṣās. It so closely follows the Taitt.Prāt. that it may be regarded as a materical version of the latter. It is important for two reasons, firstly because it shows very clearly how some of the śikṣās have their origin in the Prātiśākhyas and secondly being older than the Tribhāṣyaratna, it is an excellent guide to the interpretation of the Taitt.Prāt. It is accompanied by a fine commentary named 'vedataijasa' by "sūryanārāyanāvadhānī". In the closing verses (372-373) the author calls himself Vyāsa (srimat vyāsakanthaprasntam). This may be another designation as found in the last stanza of the commentary where this śiksā is called "Śrī Śāntara ngi nā vyāsa śiksā. The name Śāntara ngi na" perhaps denoted an official title, whether Vyāsa (provided it is not a pseudonym) as is generally chosen for the mere recommendation of a work is identified with any of the other known authors bearing the same name in literature, can hardly be ever ascertained. But Vyāsa mentioned in the śabdamālā in the śabdakalpadruma with the epithet śikṣākāra is definitely related to the author of this śikṣā.

Though we are left in darkness about the personal circumstances of the author, yet it may be affirmed that he belonged to the southern India and composed the work there. This is being corroborated by the fact that the MSS of the vyāsaśikṣā, like those of

a) I.H. Lauders, Die vyasa siksa Gottingen, 1894. 1.

b) V.V. Sharma, Modras, 1929.

c) K.V. sastri (Grantha text) Tirupati, 1908

d) P.N. Pattabhiram Sastri, Wasa Siksa, along with Vedataijas Commentary of Sri Surya Narain Suravadhani & Sarva Lakshanmanjari Sangraha of Sri Raja Ghanapathi, Kashi Sanskrit Series, 225.

the other śikṣās of the Taittirīya School are to be found, almost exclusively, in the south. Further this śikṣā has a commentator who appears to be of south Indian origin.

Perhaps, an expert in one of the south Indian languages may find the influence of a south Indian dialect on one or many rules of pronunciation embodied in this treatise. While explaining the introductory stanza of the work, the predicate Bhagavat" Prof. Winternitz states that among śikṣā works the vyā. śikṣā is considered to be the earliest work. If one examines the vyā. śik. it will be clear that it has not the same object as that of the early śikṣā works and that it is a work latter than the Prātiśākhyas.

The following are a few relevant points for discerning the time of the śikṣā. It is probable that prior to its composition, the Taittirīya, samhitā, Brāhmana, and Āranyaka, existed in their present text form, and perhaps only the kandikā division of the samhitā was not marked in the text itself. The vāśiṣthīśik. also seems to be older than Vyā. Śik. since it has used more original text than the latter.

The author of the "siddhānta śik." also knew the Vyā. Śik., and perhaps the author of the Aranya śik. used it, it is certainly older than the sarvasammata śik. and the śikṣāsamuccaya, which in their title show themselves to be the compositions of older śikṣā. Several paragraphs in the sarvasammat  $\bar{a}$  sik. are nothing other then mere revision of the corresponding paragraphs of Vyā. śik. As the author of the "tribhāṣyaratna quotes sarvarammata śik. and śik. samuccaya, it must be, in any case far younger than the  $Vy\bar{a}$ .  $\dot{s}ik$ . The author of "jaṭāvalli" a small treatise on the jaṭāpāṭha of the taittriya saṁhitā also knew the Vyā. śik. The author of jaṭāvalli has included in his text some rules of this śikṣā, especially those which treat of the jaṭāpāṭha (30,31,60,63, 150-151, 176). The first verse of *jaṭāvalli* clearly shows that it is even later than all śiksās and prātiśākhyas.

Only one single fact among those stated above enables one to find out a positive date. viz lack of the kandikā division in the samhitā text at the time of this śikṣā. It is evident from Madhava's vedārthaprakāśa, that the division was existing in the same mode as it is today, in the middle of the fourteenth century, for, madhva reads, uşmasi gamadhyai (RV. 1.3.61-62) bharavaso (RV. I-3-14) bhavanah (RV. II. 5-12) athabhava (RV. III.2-112) etc. of the original samhitā with their corresponding metrical lengths. These are found unchanged in the commentary of this śikṣā. Hence between the vedārtha prakāśa and this śikṣā there must be a significant distance. The author of the tribhāsyaratna knew the sarvasammata śikṣā which, as already mentioned is partly a revision of the vyāsa śik. The author of the vedataijasa must be considerably younger than the author of the tribhāṣyaratna because the former had worked after the MSS. of the tribhāṣyaratna which were partly mutilated. One may therefore accept Tribhāsya ratna of the 13th century to be the lower limit of the date of Vyā. śik. The subject matter of this śikṣā as found in the V.V. Sharma's edition has been divided into 17 sections. They are:

| 1)  | samj fiāprakara <b>ņ</b> a  | (1-42)  |
|-----|-----------------------------|---------|
| 2)  | vyañjanaparadīrghaprakaraṇa | (43-75) |
| 3). | nānārūpasandhi              | (76-84) |
| 4)  | ṣatva                       | (85-93) |
| 5)  | ṇatva                       | (94-93) |

| 6) visarjanīya sandhi  | (100-110) |
|------------------------|-----------|
| 7) yatva               | (111-121) |
| 8) aikya               | (122-125) |
| 9) ot-et-aikya-akāra   | (126-136) |
| 10) purva-aikya-ākāra  | (137-144) |
| 11) svaradharmasamhitā | (145-162) |
| 12) hastasvaravinyāsa  | (163-166) |
| 13) pratiședha         | (167-186) |
| 14) aṅgasaṁhitā        | (187-195) |
| 15) sthāna             | (196-220) |
| 16) kālanir ņaya       | (221-239) |
| 17) uccāraṇaphala      | (240-259) |

According to Vyā. śik. the quantity of morā is to be compared to a snap of the finger (angulisphotanam yāvan tāvankālasto mātrikaḥ, 317 Lüders edition) and the pause between two individual sounds in general has a duration of a quarter mora except in a consonant group (virāmo varṇayor madhye nukālo pyasamyute).

It's view on the place of articulation is somewhat different from other śikṣās. Instead of śiras, tālu and jihāvāmūla, it mentions vaktrādi madhyānta. It speaks of "r" as alveolar and not cerebral.<sup>2</sup>

# III.1.3 The Bhāradvāja śikṣā

It has been edited in a complete form by V.R.R. Diksitar and

<sup>2.</sup> Cp. Burnell, Aindra school of Sanskrit grammarians, p.16

P.S.S Aiyer (Poona 1998) with Nageśvaras commentary. A part of this work, with the commentary of Jatavallabha Sastri had been edited and translated by Emile Sieg (Burlin 1892) which was published in Roman script with notes in Latin.

In the Bhāradvāja śikṣā, we do not come across the general characteristics that are found in other śiksā treatise. For example. It has nothing to do with the general classification and pronunciation of letters, nor with the number of reciting or accentuating the Vedic text. But it lays down empirical rules to distinguish and employ in proper places, words of similar sounds and form. It teaches for exmples to distinguish between varjana, vrjina, sustuta, sustuti tārisat and *tāri sa ḥ* etc.

This is named as a sāmhitika śikṣā in the commentary named veda taijasa of the Vyā. śik. which is referred to as a jaṭā śikṣā by the Vedic scholars of south. It is perhaps the only authoritative ancient work which enables us to fix the correct reading of the texts of Taittirīya, comparing the samhitā, brāhmana (including the kāthaka brāhman) Āranyaka and the ekāgni kānda of the Aapastamba'school. It is difficult to fix with the available materials the chronological limits of the treatise. It is a well known fact that the Bhāradvāja śikṣā closely follows the present redaction of the taittirīyaveda with its classification into kāṇḍas, praśnas and anuvākas. It can therefore, be provisionally assumed that the composition of this śikṣā took place sometime after the Taitt. sama assumed it's present form. There is a prevalent tradition that this  $\pm ik \pm \bar{a}$  is contemporaneous with the  $\pm ik \pm \bar{a}$ . But there is no certainty about it. The author of the sidhantaśikṣā mentions in his commentary the Bhāradvāja śikṣā as the first in the

list of śikṣās. One may therefore consider the Bhāradvāja śik. as comparatively older, concerning general linguistics. It treats of svarabhakti, (in verses 4-5) with illustrations and counter illustrations. It also states that the latter 'लृ' should not be traded as a vowel in the beginning or at the end of the word. But it is vocalic only in the medial position e.g. 'klpta' (udāhṛtaḥ klptaśabdo no padādyanta yovā svarah) (34). It states that a phonetician should know the following.

a) vibhakti, b) linga, c) krama, d) ingya, e) kanthokti, yajus, g) pada-samkhyā and h) varna samkhyā (129).

The verses state that one who understands the Bhār. śik. attains the relam of Brāhmaṇa.

#### III.1.4 Kauhali śiksā

It has been edited by Sadhu and published in the journal of Vedic studies. Kauhali (Kauhaldi or kauhadi) is an ancient name. Kohala, father of astāavakra is mentioned in the Mbh. Medini, the famous Sanskrit lexicon describes Kohala as the author of a dramatorgical treatise and another Kohala as the author of a prākrit grammar and still another as a writer on music. This name ocurs also in the  $\hat{S}a.Br\bar{a}$  (ii-4.3)  $Br.\bar{A}r.Up$ . (iii-5.1)  $\bar{A}sv.\hat{S}r$ . (iii-4.4) and the Śān. Ār. (15). The Kāṭhaka saṁhitā mentions- Aryalah kahodiḥ whereas the Jaiminiya Brā, has Aryalah Kaholih. Another interesting variation of the name is kaphodih which occurs as Ayalah kaphodih in the kapisthala katha samhitā (xxxix-5. 218). The sivādigana on Pāṇini (iv. I. 112) reads kohaḍa and kohada side by side. Evidently it is one and the same name.

The Taitt. Prā. mentions the opinion of a phonetician named

kauhaliputtra (samam sarvatreti kauhali puttraḥ, Taitt.Prā. 17.1.2) who held that the degree of nasality in anusvāra and the nasal consonant was moderate. But this opinion is not mentioned in this śiksā, Hence kauhaliputtra may be different from kauhali to whom the present  $\pm ik\bar{s}\bar{a}$  is attributed. Moreover, the first verse of the  $\pm ik\bar{s}\bar{a}$ implies that it is not the work of Kauhali himself, but it'simply represents his views. "atha śikṣām pravakṣāmi kauhalīyama tānugam". This śikṣā has been recognized as one of the main śikṣā. Śrinivāsa, in his enumeration of the nine important śikṣās puts it in the fifth place. The yajuṣbhūṣaṇa, a commentary on Pari. śikṣā, also gives the same enumeration. Kasturi Rangacarya, in his introduction (p-20) to the Taitt. Prā. quotes three verses mentioning to present śiksā in the eighth place, viz-1) Vyāsa (2) Laxmi (93) Bhāradvāja (4) Āranya (5) Sambhū (6) Āpiśalī (7) Pāṇini, (8) Kauhali (9) Vaśiṣṭha.

It belongs to the Taittirīya school, because verse 45 of the śiksā is the same as verse 27 of the kāndānukrama of the ātreyīśakhā. Verse 55 states that only he can expound the jatāpātha who knows the scriptures like the prātiśākhyas and who is an expert in all the śikṣā. This reference indicates that it is a comparatively recent compilation. Regarding manual gestures in accentuation, it prescribes the use of the right hand and not the left hand (35).

In verse 48, it quotes Ātreya. It's rules can be compared to those of the Taitt. Prāt. It contains altogether 82 verses. Among topics of general interest to phonetics, it deals with the varieties of accent, particularly of the circumflex accent, the eight fictitious recitations (astavikrtis) varities of tempo (vrtti), the vowel quantity and svarabhakti.

#### III.1.5 Sarvasammata śiksā

The Ms. of the Sarvasammata śikṣā examined by kielhorn contained only 134 verses. The Ms. (No. 998 of Madras) examined by Verma contained 170 verses while that which was edited and translated by A.O. Franke (Gottingen 1886) contained only 49 verses with an anonymous commentary. Franke's edition made only a meagre treatment of accent and quantity. The author of the Sarvasammata śiksā used by Verma, was Keśavārya son of Sūryadeva Budhendra and the commentator's name was Manic Bhatta. Franke's commentator was perhaps a different person, for not only his commentary varies in point of treatment but also it varies in its introductory verse. Keilhorn's MS. was also accompanied by an anonymous commentary which, basides other authorities quoted a work by the same author, entitled "Śikṣācandrikā" the introductory verse of this commentary is the same as that of the commentary of Franke's edition viz.

"dhyātvā sarvajaganāthaṁ śāmbaṁ sarvārthārādhakam / vyākhayāyate' dhunā śiksā sarvasammatalaksanam //,"

The commentator, in all probability, was a man from "Orissa" for he begins his treatise with a homage to Lord Jagannātha and Śāmba. According to a story prevalent in Orissa Śāmba once had some childish pranks with a hermit and for that reason was severely cursed. As a result Sāmba had to suffer from leprosy but later on he was cured of that disease by his unflinching devotion at the feet of Lord Sūrya.

Manic Bhatta explains sarvasammata as that which expounds subjects common and acceptable to the entire phonetic works belonging to the Taittirīya School. Franke's commentator does not give any such explanation. Again Franke's edition has only two verses on accent describing the castes of the three accents, while the Madras MS. has thirty three verses and a fairly copious treatment of accent.

Regarding this śikṣā, Lüders remarks that certain portions of this work are evidently nothing but collaboration of the corresponding portions of the Vyā. śik. This may be true of Franke's edition but not so much of the Madras MS. used by Verma.

This śikṣā contains some material hardly to be met with in any other extant śikṣās. For instance it observes the quantity of a consonant without a vowel is a quarter mora; the quantity of a pause, between a labial vowel and the first member of a mute series is a half mora, provided the mute series intervenes between two labial vowels e.g. "Utpāta" where the pause between "U" and "T" was said to be a half mora'. Kielhorn's MS. deals with doubling, svarabhakti, vivitti, faults in Vedic recitation, the vowel quantity, accents including the varities of the circumflex syllabication, ranga, manual gestures in accentuation etc. Verses describing manual gestures are interesting.

The right hand should assume the shape of cow's ear (gokar nākrti) and eyes should be fixed on it's tip. Then the thumb finger should move to denote the accents. Just as man goes to woman and not woman to man, likewise the thumb goes to all the fingers. The thumb touches the middle joint of the remaining fingers to indicate the grave, circumflex, pracaya and the accute accents respectively. Optionally the lower joint of the index finger is the place of the accute, the lower joint of the little finger is the place of grave, the upper joint of ring finger is the place of the circumflex and the middle joint of the middle finger is the place of the pracaya accent.

The word 'dhṛti' here is used as synonym of "Pracaya". The date of this śikṣā does not seem to be very recent, for it has been quoted both by the Tribhāsyaratna and the Vaidikābharana on Taitt.Prāt. (XIV. 6).

### III.1.6 Āraņya śiksā

It is a monagraph on the peculiar accentuation of Vedic passages met with in the Taittirīya Āraņyaka. This śikṣā in its introductory verse professes to have been based on nine other śiksās. Hence it is a comparatively recent work. It is also accompanied by an anonymous commentary. It enumerates words with accent in different positions in order to remove the doubts of vedic reciters. (adhyetṛṇām sandehānām, nivṛttaye). It mentions an interesting theory according to which the final syllable of a word has low accent if the penultimate is long and high accent if the penultimate is short.

It does not accept this theory as a general principle. The passage dealing with this theory first enumerates words from the Taittirīya Āraṇyaka which end in two syllables with a high accent e.g. "avalumpatu" (X.24.1; X.25.1) where the normal accent should have been only on the penultimate syllable as in "avalumpatu". An opponent here suggests that the enumeration of such words is unnecessary because of the general rules, which propounds that with a short penultimate the final syllable has the high accent. The solution offered by this śikṣā is the following viz. although this phenomenon often occurs, yet it cannot be accepted as a general rule, for it is contradicted by counter examples titah, kṛṣṇaḥ etc.

It is probable that this theory refers to a state of development

of the musical accent to the stress accent, in which the quantity of the penultimate syllable seems to have played some part. It is not unlikely also that this theory refers to the stress accent of penultimate syllable which may have left the final syllable with a weak expiratory accent. Both the text and commentary of this śikṣā in Keilhorn's manuscript consists of 60 pages.. MS. NC. 866 Madras was used by verse. This śikṣā professes to solve the five question of the vedists without mentioning what are these five questions. (praśnesu pańcasumude nigame pātunām)

### III.1.7 Siddhānta śiksā

This is the work of Śrinivasa Diksita. This does not deal the general principles of phonetics, but it is entirely empirical in its treatment. Like the Bhāradvāja śikṣā, it gives lists of words containing different sounds in alphabetic order. The only point of phonetic interest is that the final "m" of "tvam" may be optionally pronounced "n" in the Vedas. It enumerates a few more words in which the anusvāra is said to be pronounced as "n" e.g. sinte, vinte, mantam, yundhuam, vindhuam etc. Keilhorn's MS of this śikṣā was accompanied by anonymous commentary according to which the author of the original, had studied the nine śikṣās of Bhāradvaja, Vyāsa, Pāṇini, Sambhū, Kauhala, Vasistha, Vālmāki, Hārita and Baudhāyana, besides the Taitt.Prāt. with the tribhāṣyaratna and the vaidikabharaṇa etc. the commentator quotes the Bhāradvāja and sarvasmmata śikṣā. It also quotes a vaisnava Lexicon, Gangesa, the famous founder author and the promulgator of Navya Nyāya and Bhatta Bhāskara, the famous commentator on Taittirīya samhitā, According to the colophon of Varma's Ms., one Śrīnivāsadhvanindra is the author of both this śikṣā and it's commentary. It contains altogether 74 verses.

The author's name in kielhorn's Ms. is Śrīnivāsa makhin (Śrīnivāsmakhinā praņīyate). As regards the date of this śikṣā, it must be more recent. Verma has followed Burnell in accepting the date of Bhatta Bhaskara at about 950-1000 A.D. the date of Ganges, according to keith, is 1150-1200 A.D. the lower limit of it's date there fore was the fifteenth century A.D. (Varma)

### III.1.8 Śambhū śiksā

It has been edited by Weber in Indische studien (vol-iv-p.348-349). The author of  $P\bar{a}n$ .  $\dot{s}ik$ . quotes  $\dot{s}ambh\bar{u}^3$  while enumerating the letters. Hence the  $\acute{s}ambh\bar{u}$   $\acute{s}iks\bar{a}$  may be presently older than the  $P\bar{a}n$ . śik. Kielhorn (Indian Antiquary v.119) and Lüders (op. cit. p. iii) regarded it to be the Pān. śik. in another garb. But actually it is considerably different from the Pān. śik. It lays down much more advanced theories on quantity and accent and has been occasionally quoted by the tribhāsyaratna (on Taitt. Pārt.) and the vaidikābharana (on Taitt. Prāt. I-40) commentaries. It seems to be a comparatively older work, perhaps a contemporary of vyā. śik. In the first verse, the author offers his greetings to Goddess Kālikā, Laxmi and Sarasvati. It is a concise but fairly complete  $\dot{s}iks\bar{a}$ . It deals with accent, quantity, hiatus, doubling, svarabhakti etc.

## III.1.9 The Cārāyanīya śikṣā

This is the only extant śikṣā belonging to Cārāyaṇīya School. It still exists in manuscript form, and has not been critically edited.

<sup>3. &</sup>quot;tri sasthi catu sasthir vā var nā śambh ū mate mat ā' Pān, śik, verse-3.

Being a complete śikṣā (even more complete than the Yājñ. śikṣā) it awaits the attention of some capable scholar for its critical edition and publication. The cārāyaṇīya school according to the caraṇavyūha, was one of the twelve subdivisions of the caraka school of Black Yajurveda. The school was known to Patañjali for he speaks of a desciple of cārāyaṇa fond of a blanket<sup>5</sup>? It quotes the Vāj. Prāt on two occasions<sup>6</sup>, hence it is posterior to the prātiśākhyas. It has independent view on the place of articulation of the alphabetical sounds. While the Pāṇiniya śikṣā enumerates eight places only (astau sthānāni varņānām), it has, instead, enumerated ten places, the two more, being "serkva" (corner of the mouth) and dantamūla (roots of teeth)

It prescribes the cerebral pronunciation of "r" and "r". 8 it prohibits the pronunciation of svarabhakti as "r" or "u" (vol-9). This prohibition is also within the Yāj. śik. It may be assured that "i" and "u" vocalization of svarabhakti was current in the area where this  $\dot{s}\bar{\imath}k\dot{s}\bar{a}$  was composed. According to pischel, a vocalization of svarbhakti was frequent in the areas dominated by Ardhamagadhī and Apabhramśa dialects. Hence it may be negatively asserted that this śikṣā was not composed at least in these areas.

This śikṣā is called by two other names viz- (a) mahāśikṣā

<sup>4.</sup> yajurveda şaḍaśītirbheda bhavanti tatra carakaṇām dvādaśavidhā bhabanti caraka hvarakacār ūyanīyah. (10-11) Op.cit. ed. Weber.

<sup>5.</sup> kambala cārāyanīyaḥ (Mahābhāṣya) 1.1.73

<sup>6.</sup> varņasyādar śanam lopaḥ- Vāj. Prāt. I. 141-vol-9

<sup>7.</sup> dasasthānāni varnānām kīrtayanti manīsinah urah, kantah, siras tālu, danta osthau tu nāiskā jihvāmūlarin tu srkvasca dantamūlastathaiva ca. vol-1.

<sup>8.</sup> mūrdhanyah rturasā j neya dantyā itulasā smrtah, vol-2

<sup>9.</sup> Grammatik der prakrit-sprachen p.123.

and (b) cārāyanīyakam. It consists of 10 Adhyāyas with three hundred and thirty-five ślokas. It professes to be the work of cārāyaņi (etat cārāya nermatam- 2<sup>nd</sup> Adhyāya). It quotes Vaśiṣṭha and Sanat kumar. (Adhyāya-iii. 2). The contents of different chapters along with the number of ślokas in each chapter are:-

| Chapter | No. of ślokas | Contents                                     |
|---------|---------------|--|
| i       | 64            | classification and pronunciation of letters. |
| ü       | 57            | letter junction.                             |
| iii     | 37            | word junction.                               |
| iv      | 28            | study and recitation of Vedas                |
| v       | 18            | varities of svarita                          |
| vi      | 19            | virāma, mātrā, vivītti and an                |
|         | · .           | enumeration of classical metres              |
| vii     | 8             | v <i>ṛtti</i> (tempo)                        |
| viii    | 46            | piṇḍa (ayaḥpiṇḍa, jwālāpiṇḍa                 |
| •       |               | svarabhkti and ranga)                        |
| ix      | 18            | krama (doubling)                             |
| x       | . 40          | krama (doubling)                             |

The fact that it enumerates the classical metres goes to prove that it is of more recent data than what it actually claims.

#### Śiksās of ŚYV: An Introduction Ш.2.(0)

The differences and deviations in rituals and ceremonies among the followers of the Kāṇva and Mādhyandina saṁhitās of the ŚYV are not very significant. As observed by B.R.Sharma, these two śakhas have Kalpas ūtras and prāti śākhyas at the common authorship which make the merger into another  $\dot{s}\bar{a}kh\bar{a}$  or change over from one  $\dot{s}\bar{a}kh\bar{a}$  to another in the same line easier and smoother, 10 of the surviving two Mādhyandina and Kāṇva, Mādhyandinasamhitā is followed exclusively throughout the Aryavarta. Moreover, this samhitā has the largest number of followers compared to any other samhitā in the North and South India. The samhitās of the SYV are closely interrelated. The śrautas ūtras, gṛhyas ūtras and Prātiśākhyas of ŚYV consider the Mādhyandinaśākha as their main basis as Ananta says on the Vāj. Prāt. 1.1. that:-

> samagrodāharaṇalābhena ca mādhyandinīyaśākhīyamevedaṁ prātiśākhyamiti gamyate //

For the present work, an analysis of the following śikṣā texts have been done:-

- varna-ratna-pradīpa-śikṣā 1.
- prāti śākhya-pradīpa-śikṣā 2.
- svarabhakti-laksana-pari śi sta-śiksā 3.
- krama-sandhāna-śikṣā 4.
- 5. galadık-siksā
- 6. mana ḥsvāra-śikṣā
- mallaśarma-śikṣā 7.

- 8. svarānkuśa-śikṣā
- 9. sodaśaślokī-śikṣā
- 10. avasānanirnaya-śiksā
- 11. kramaķārikā-śikṣā
- 12. vāśisthī-śikṣā
- 13. kātyāyanī-śiksā
- 14. māṇḍavī-śikṣā
- 15. keśavī-śikṣā
- 16. ke śavak tapady ātmikā-śik sā
- 17. vedaparibhāsā-sūtra-śikṣā
- 18. vedaparibhāṣā-kārikā-śikṣā
- 19. sarnketa-bodhikā-śiksā
- 20. pārāśarī-śikṣā
- 21. amoghā-nandinī-śikṣā
- 22. laghu-amoghānandini-śikṣā
- 23. mādhyandinī-śikṣā
- 24. laghu-mādhyandinī-śikṣā
- 25. yaj ñavalkya-śik ṣā

Most of these śikṣā texts have been published in the "śikṣā-saṃgraha" edited by Acharaya Shri Ramprasad Tripathy. However single analytical studies on the above śikṣā texts are rarely available. Only on the basis of the texts and some of the commentaries published in the "śikṣā-saṃgraha", an humble attempt has been made in this chapter

to prepare a comparative analysis of the above śikṣās. Before the analytical studies, a general survey of the śiksā texts of ŚYV is presented below-

#### III.2.(i) Varņaratnapradīpikāśikṣā

Varnaratnapradīpikāśikṣā is attributed to Amareśa who belongs to the genealogy of Bharadvāja. It is a fairly complete śikṣā consisting of 227 kārikās. The author admits that he has followed the prātiśākhya<sup>11</sup> as he says I shall explain the śikṣā that has followed the prātiśākhya, for the correct recitation of young students as well as for acquiring knowledge about the letters. But this śikṣā does not deal with all the themes of *prātiśākhya*. For example- with regard to accentuation, it states only the general rules. The subjects dealt with in this śikṣā, do not follow the order of the *prātiśākhyas* but they follow their own arrangement as stated below.

The arrangement of subjects in this śikṣā is as follow: -

- i) Benediction and authorship 1-3 verses.
- Recitation of the Vedic texts should precede the understanding ii) of accentuation and euphonic combination 4-9 verses, cp.  $(V\bar{a}j.Pr\bar{a}t.I, 1.4)$
- Enumeration of letters. 10-17 verses cp. (Vāj.Prāt.VIII, 1-20) iii)
- Explanation of technical terms- Jit, dhi, mut, kanthya, sim, bhāvī iv) and upadhā, 18-20 verses cp. (Vāj.Prāt.I, 44-54)
- Enumeration of particular letters, la, lha, the jihvāmūlīya,

<sup>11.</sup> so'ha:m śikṣā:m pravakṣyāmi prāti śākhyāmusāri nīm/ bālānām pāṭhaśuddhyartham varnajñānādi hetave// verse-3

- upadhmānīya and nāsikya, which are not used by the Mādhyandinas. 21 verses cp. (Vāj. Prāt. VIII, 33-34)
- Definition of hrasva, dīrgha, pluta, aņu and paramāņu 22-23 vi) verses, cp. (*Vāj.Prāt.* I, 55-61)
- vii) Description of the sthāna, karaṇa, and prayatna etc. Prayatna is not described in the *prātiśākhya*. 24-43, verses cp. (Vāj.Prāt. I, 62-84)
- Rules of syllabic division (pūrvānga parānga carcā 44-55, viii) verses cp. (Vāj. Prāt. I, 102-106)
- Description of the nine letters (ayogavāha sounds which occur ix) without being given together with other letters), anusvāra, visarga, nāsikya, yamas, jihvāmūlīya and updhmānīya which never occur independently. The syllabication of svarabhakti is also described from 50-53 verses.
- Eight kinds of the circumflex accents with definition and' X) illustration, kampa and pracaya, manual gestures for these accents. 56-87 verses.
- The three conditions of the human body-āyāma(stretching) xi) mārdava(softness) and abhighāta (striking) conducting to the production of sounds. The upward, downward and oblique movements of the body in accentuation 88-90.verses (Vāj.Prāt. i. 31-32)

If *udātta* joins with *anudātta* or *svarita*, the resultant is *udātta*. xii) The combination is of six kinds.

- (a) anudātta .....udātta + udātta
- + udātta (b) udātta .....udātta
- .....udātta (c) jātyasvarita + udātta
- (d) udātta + padavrtta ..... udātta
- (e) udātta + tairovyañjana ...... udātta
- (f) udātta .....udātta + tairovirāma

These changes are explained with sufficient illustrations. 91-101, verses (Vāj.Prāt. 2<sup>nd</sup> chapter)

- xiii) Estimation of the relative strength of vowels 102-105 verses.
- Rules of euphonic combination 106-214 verses (Vāj. Prāt. xiv) iii,iv,v,vi) Lopa (elision) agama (augment) vikāra (modification) and prakṛtibhāva (retention), are dealt upon. This includes svarasandhi, vyañjanasandhi, and svaravyañjanasandhi, euphonic changes of visarjanīya, anusvāra and its division etc. Here, in verses 177-179, some euphonic combinations are compared to ayahpinda, urnapinda, dārupinda etc. These terms are not mentioned in the prātiśākhya. In the Yaj. Śik. they are defined with illustrations. The verses 194-195 state that there can be one, two, three, four, or more words in a pāda (line of a verse). This fact has found a place in the first chapter of the prātiśākhya as one of the general subjects of discussion, but here, it is intermixed among the rules of euphonic changes, which seem to be irrelevant (*Vāj.Prāt.* i. 157).

- Description of the colours and presiding deities of letters. 215xv) 216 verses (*Vāj.Prāt.* viii 35-42)
- Classification of words- nāma (name), ākhyāta (verb), upasarga xvi) (preposition) and nipāta (particle) their presiding deities. 271-219. (Vāj. Prāt. viii. 47.55)
- xvii) Description of the castes, presiding deities etc. of different accents and letters. 220-227 verses.

#### Prāti śākhyapradīpa śiksā Ш.2. ii)

This is a more recent and major work written by Bālakṛṣṇa, the son of Sadasiva (vide verse 3). It was composed in the year 1802 vikrama samvat in the month of Magha, bright fortnight, Sunday. Bālakṛṣṇa has produced this work after studying several śiksās and prātiśākhyas. He mentions: Yāj ñavalkya (verse 13;15) vāśi sthi śikṣās and pāṇinīya śikṣā the mādhyandinaśikṣā, katyāyanaśikṣā, amareśiśikṣā, ādityapurāṇa, varāha purāna and parāśara smīti. This śiksā not only states the subjects of *prātiśākhya* but also defines most of the *prātiśākhya* sūtras, section by section, with illustrations. In the prātiśākhya, the arrangement of subjects is not satisfactory, and the sūtras dealing with different themes, are not in proper order. The author of the present treatise, deals with the subject matter in his own way and in some places, discusses additional matter unknown to the prātiśākhya.

The following headings will give an idea of the subjects dealt with.

- i. Method of studying the Vedas.
- ii. Persons unfit to study the Vedas.



- iii. Different manual gestures.
- Discussion of the acute, grave, and circumflex accent. iv.
- Eight varieties of "svarita" with illustrations. V.
- Description of pracaya accent. vi.
- Rules of vowel-combination and consonant combination. vii.
- Description of anusvāra and its indication by fingers. viii.
- ix. Rules of visarga-combination.
- Section dealing with cerebralization of "s" & "n". X.
- Section on the vowel lengthening. xi.
- xii. Duplication and syllabication of consonants.
- xiii. Section on anudātta, advudātta, dvirudātta, tryudātta, antodātta and prakṛti- svara.
- Characteristics of words and their classification. xiv.
- Section dealing with avagraha. XV.
- xvi. Description of samkrama.
- Construction of krama text.
- xviii. Enumeration of krama-samdhāna.
- xix. Section on svarabhakti.
- Details regarding the pronunciation of r, y, v & s. XX.
- Description of eight vikṛtipāṭhas (fictious recitations such xxi. as jatā, mālā, śikhā, rekhā, dhvaja, danda, ratha and ghana.

#### III. 2 (iii) Svarabhaktilak şanapari śi sta śik şā

This work is ascribed to *kātyāyana*. It contains 42 *kārikās*. The author's style and diction lead one to think that this work belongs to a later period, than that of kātyāyana. This ascription was not thought condemnable, as other later works in the field, generally bore the authorship of great sages. This might be simply to claim greater antiquity. Similar instances are found in the Vyā. śik., Mādh. śik. and the Bhāradvājaśikṣā etc. In this work many pratyāhāras which are known as Pānini's inventions, are used. Had kātyāyana been the author of this work, he would naturally have used the same pratyaharas in his prātiśākhya, pratijñā sūtra, bhāsika sūtra, etc., so that the bulk of these works could have been reduced to two-thirds of their present length. The last six verses of the treatise deal with svarabhakti and are evidently the reproductions from the Yāj. śik.

The subjects dealt with in this śikṣā are:-

- 1. Varities of svarita.
- Some euphonic combinations. 2.
- 3. **Duplications**
- Classification of euphony. 4.
- Description of vivitti and it's kinds. 5.
- Different kinds of svarabhakti. 6.

#### III.2. (iv) Krama-sandhānaśikṣā

The authorship and subject matter of this treatise are enumerated in the first verse as:-

yathā samāmnātaṁ kramāvasānaṁ saṁkramesu/ kramaśā strāanusāre na sandhāna in procyate'dhunā//

Which means:- I am going to enumerate krama-sandhānas in every chapter of VSM, as they have been collected in the samkramas. According to the krama-text, the "samkrama" has been defined by kātyāyana as the recurrence of the beginning of the third word (tripadādyavartamāne samkrame, Vāj. Prāt. IV-166) The word is derived as sankramyate iti samkramah and means the combination of the recurring words with the non-recurring words. Kramapātha denotes the joint recitation of the two words, the first with the second, the second with the third, the third with the fourth etc, so that the order a b c d, gives the krama numbers ab, bc, cd.

Whenever sankrama takes place, the recurring words are dropped; the combined recitation of the next word is called "krama" sandhāna" e.g. (i) viśvadhāḥ parameṇa (VSM. I.2) where the word "asi" between "viśvadhāh paramena" has been omitted (ii) hvārsitśatadhāram (VSM-I-2-3) where "vasoh pavitramasi" has been omitted between "hvārsit" and śatadhāram" etc.

#### Enumeration of krama-sandhānas in VSM

| <u>Chapter</u> | <u>No of krama-sandhānas</u> |
|----------------|------------------------------|
| i .            | 42                           |
| ii             | 19                           |
| iii            | 3                            |
| iv             | nil                          |

v 7 nil vi vii 2 viii nil 2 ix nil  $\mathbf{x}$ 2 xi xii 1 xiii 4 . xiv 3 8 XV nil xvi xvii nil xviii 2 xix nil 4 XX xxi nil 2 xxii 3 xxiii

| Total- | 115      |
|--------|----------|
| xxviii | <u>2</u> |
| xxvii  | nil      |
| xxvi   | nil      |
| XXV    | nil      |
| xxiv   | nil      |

There are altogether 115- krama-sandhānas in the VSM.

### III. 2. (v) Galadṛkśikṣā

This work calculates the number of Rks. which are repeated in each chapter of the VSM. The work is a reproduction of the second section of Mādh. śik. It's date and authorship are unknown. There are altogether 1975 repeated (Rks in the VSM)

In the chapter I, XXIV, XXIX, XXXI, XXXII and XXXIX no rk, has been repeated.

### Enumeration of the repeatd Rks in VSM

| Chap | oter No of repeated | Chapter | No | Chapter | No  |
|------|---------------------|---------|----|---------|-----|
|      | Ŗks                 |         |    |         |     |
| i    | nil                 | xviii   | 69 | xxxvi   | 13  |
| ii   | 33                  | xix     | 93 | xxxvii  | 13  |
| iii  | 62                  | XX      | 90 | xxxviii | 22  |
| iv   | the number has not  | xxi     | 57 | xxxix   | nil |
|      | been mentioned      | xxii    | 19 | xl      | 13  |

| <b>v</b> . | 41  | xxiii  | 57  |
|------------|-----|--------|-----|
| vi.        | 35  | xxiv   | nil |
| vii        | 44  | xxv    | 44  |
| viii       | 58  | xxvi   | 25  |
| ix         | 39  | xxvii  | 44  |
| X          | 32  | xxviii | 53  |
| xi         | 88  | xxix   | nil |
| xii        | 108 | xxx    | nil |
| xiii       | 53  | xxxi   | nil |
| xiv        | 36  | xxxii  | nil |
| xv         | 54  | xxxiii | 87  |
| xvi        | 63  | xxxiv  | 57  |
| xvii       | 97  | XXXV   | 18  |

Total = 1975

evam catus ṣaṣṭiṭco viluptau ekādaśottaraśatāni ṛco'dhikāśca //

## III.2 (vi) Manaḥsvāra Śikṣā

The authorship of this work is ascribed to Brahmā and through yājñavalkya, it was known to the public. It enumerates the mantras of VSM containing words with various types of accents as stated below.

| 1. | tripadā dviravasānamadhye'nudāttāni | <br>45 |
|----|-------------------------------------|--------|
| 2. | tripadā dviranudāttāni              | 22     |

| 3. tripādyānta-madhyenudāttāni         | •••••  | ,<br>39 |
|--|--------|---------|
| 4. tripada dvirudāttāni                |        | 31      |
| 5. tripāda madhyodāttāni               |        | 24      |
| 6. tripadā antyodāttāni                |        | 31      |
| 7. tripadāmadhye antyodāttāni          |        | 6       |
| 8. tripadā kampāḥ                      |        | 10      |
| 9. tripadājātyāḥ                       | ••••   | 11      |
| 10. tripadā madhye takarāntāḥ          | •••••  | 6       |
| 11. tripadānte takārāntāḥ              | •••••• | 7       |
| 12. tripadā madhye nakārāntāḥ          |        | 3       |
| 13. tripadānte nakārāntāḥ              |        | 2       |
| 14. tripadāntarādyudāttāni             |        | 5       |
| 15. catuṣpadā dviravasānā madhye       |        |         |
| nudāttānyathādimadhyo dāttāni bhavanti | •••••  | 179     |
| 16. catuṣpadādyudāttāni                |        | 101     |
| 17. catuṣpadādyudāttamadhyenudāttāni   | •••••  | 130     |
| 18. catuṣpadādyudātta madhye'nudāttāni |        | 113     |
| 19. catuṣpadā madhyodāttāni            |        | 140     |
| 20. catuṣpadā antyodāttāni             |        | 99      |
| 21. catuṣpadā madhye antodāttāni       |        | 39      |
| 22. catuṣpadā prathame yo jātyāḥ       |        | 130     |
| 23. catuṣpadā madhye jātyāḥ            |        | 27      |
| 24. catuṣpadā madhyentyo jātyāḥ        |        | 64      |
| 25. catuṣpadā kampojātyāḥ              | •••••  | 10      |

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| 26.         | catuṣpadā kampamanontakāḥ            | •••••  | 55         |
|-------------|--------------------------------------|--------|------------|
| 27.         | catuṣpadā dvikampāḥ                  |        | 4          |
| 28.         | catuṣpadā dvirjātyāḥ                 |        | 14         |
| 29.         | catuṣpadā madhye takārāntāḥ          |        | 43         |
| 30.         | catuṣpadā antye nakārāntāḥ           | •••••• | 40         |
| 31.         | catuṣpadā madhye nakārāntāḥ          |        | 26         |
| 32.         | catuṣpadā ante nakārāntāḥ            |        | 31         |
| 33.         | catuṣpadettara dyudāttāni            |        | 18         |
| 34.         | avasāna dyudāttāni                   |        | 24         |
| 35.         | avasānā dyanudāttāni                 |        | 26         |
| 36.         | avasāne kampāḥ                       | •••••• | 17         |
| 37.         | avasāne prathamārdhodāttani          |        | ' 9        |
| 38.         | avas ān āntodātt āni                 |        | 11         |
| <b>3</b> 9. | avasane jātyāḥ                       |        | 21         |
| 40.         | avasane dvirjātyāḥ                   |        | 5          |
| 41.         | avasane dvitīyārdhodāttāni           |        | 20         |
| 42.         | avasane takarāntāḥ                   | •••••  | 8          |
| 43.         | avasane nakārāntāḥ                   |        | 5          |
| 44.         | avasane prathame dvitīyāntamudāttāni |        | 2          |
| 45.         | avasane ādyudāttāni                  |        | <u>'</u> 2 |
| 46.         | antyavasāne ādyudāttāni              | •••••• | 60         |
| 47.         | antyavasāne ādyānudāttāni            |        | 55         |
| 48.         | antyavasāne urdhvodāttāni            |        | 28         |
| 49          | antvavasāne eko iātvah               |        | 31         |

| 50. antyavasāne kampāḥ                 |         | 18  |
|--|---------|-----|
| 51. antyavasāne kampaḥ, jātyaḥ         |         | 10  |
| 52. antyavasāne dvirjātyaḥ             |         | 9   |
| 53. antyavasāne trirjātyāḥ             |         | 9   |
| 54. antyavasāne nakārāntāḥ             | ••••••• | 10  |
| 55. niravasāne ādyudāttāḥ              |         | 10  |
| 56. niravasāne anudāttāh               |         | 12  |
| 57. niravasāne kampāḥ                  | •••••   | 3   |
| 58. niravasāne kampaḥjātyāḥ            | ••••••  | 3   |
| 59. niravasāne eko jātyāḥ              |         | 7   |
| 60. niravasāne dvirjātyāḥ              |         | 5   |
| 61. niravasāne trirjātyāḥ              |         | .6  |
| 62. niravasāne madhyavasane dvirjātyāḥ |         | 5   |
| 63. caturāvasāne ādyudāttāni           | •••••   | 11  |
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# अथ त्रिपदाद्विरवसानमध्येऽनुदात्तानि- संख्यायां पश्चचत्वारिंशत्

| मन्त्रप्रतीकम्  | अध्यायमन्त्रसं. | मन्त्रप्रतीकम्   | अध्यायमन्त्रसं. |
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| मा नः           | ३।३०            | मयिगृह्णामि      | १३।१            |
| परि ते          | ३।३६            | प्राणपाक         | ६।३६            |
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| त्वं यविष्ठ                  | १३।५२            | तस्मा अरं  | ३६११६      |
| अग्ने पावक                   | १७।८             | द्वन्न:  | ११।७०      |
| सन:पावक                      | १७।९             | परस्या अधि   | ११।७१      |
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| सयक्षत                       | २१।१५            | तव वायो  | રહાફેજ     |
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|                         |              |                  |              |

Thus this  $\pm ik$ ,  $\pm \bar{a}$  only gives stress upon the svara and other aspects of śikṣā as vala, mātrā, sāma, santāna are not dealt upon in this śikṣās.

### III. 2.(vii) Malla śarmā śiksā

This work contains 65 kārikās on the whole. It is also known as hastasvara prakriyā. The author's name is Malla Sarmā who was the devoted son of Sri Vedasvarup Vakpatisarma, belonging to the gotra of Upamanyu. He was an inhabitant of kanyakubja and he maintained the daily sacrificial fire. The colophone reads:-

"Here ends the śikṣā by Mall Sarma who was the devoted son of Khagapati, an inhabitant of the village Ghatamapora, in the city of Kānyakubja. The author's statement with regard to his parentage is apparently contradictory for while in the concluding verses he mentions that he is the son of Vedasvarupavākpati Śarma, in the colophon he is mentioned to be the son of Khagpati, The former might have been a little name and the latter a nickname both perhaps denoting one and the same person.

A few verses appear in his work, which reveal the date of the treatise. This treatise on the manual gestures for accents was composed in the year 1781 (Vikram Sambat), on Saturday, the eleventh day in the bright fortnight of the month of Kārttika (ūrja).

The author quotes Manu as the author of a *prātiśākhya* and *Ravana*, as the author of Svarankuśa. From that it appears that the prātiśākhyas ascribed to many authorities were in existence. But there is no information available from any other source to support this or as to what recension of the Vedic text it belongs.

Rāvaṇa is the author of the Svarānkuśa śikṣā, a minor treatise defining the rules of accentuation and euphonic combination. A work bearing the above title is in existance but it's author is Jayanta Svāmi, At the end of the printed edition of this text, there is a footnote of the editor ascribing the authorship of the work to Rāvaṇa. The note is of little help as it might have been written with reference to the above extract of the present treatise. There are many evidences to prove that Rāvaņa was a great author in Vedic and philosophical literature. Many extracts are to be seen in the later works from Rāvana's commentary on Vedic texts. And some of them have been reproduced at the end of the first chapter of the present monograph. Rāvaņa has also written a commentary on kaṇāda's Vaiśe sika sūtras. Besides this, he has some minor works connected with the YV.

The main subject of the present treatise is the description of the method of indication of accents by different manual gestures. There is no other work hitherto known, which deals with this subject so elaborately. The contents of the work are:

- 1. General rules
- 2. Mūlasthānam.
- 3. Catussvara-gati.
- Definition of the pūrna-nyubja, (fully bent downward 4. ardha-nyubja and jātya.
- Extent of manual gestures. 5.
- 6. Egress of fingers.
- Definition of anunāsika. 7.
- 8. Treatment of *kṣaipra*. (The *svarita* accent on a syllable)
- Orthographic presentation of "udātta"., anudātta and 9. svarita.

- Various postures for indicating the letters of dental and 10. labial mute-series.
- 11. Treatment of svarabhakti.
- 12. Treatment of the accent in the Brāhmana.
- 13. Divisions of *ranga* and their indication.
- 14. Manual gestures for bi-syllabic words.
- Enumeration of "austha makāra" sounds. 15.
- Origin of "austha makāra" sounds. 16.
- Enumeration of "sthakāra" sounds. 17.

#### III.2. (viii) Svarānku śa śik ṣā

This is a small treatise containing 25 verses. The author states in the beginning that he is going to define the various kinds of accents. At first he describes the four varieties of the circumflex accent- jātya, abhinihita, kṣaipra, and praślista and their change into tremor in particular places. Then he deals with their main accents and their combinations which result in the change of one accent into another. After that, tairovyañjana, tairovirāma and padavitta circumflexes are defined with sufficient illustrations. The author specifies the places where the circumflex should be prohibited, and the tremor should be sounded in favour of circumflex. The different varieties of tremor (short, long etc.) are also detailed here.

The 23<sup>rd</sup> verse of the work states that it contains only 21 verses and this śiksā belongs to RV. Therefore, the four additional verses which are found in the printed edition should be regarded as interpolations. Verse 17 is definitely an interpretation verse of (Rk.Prā. III.3) verses 24

and 25 are obscure and occur only after the enumeration is complete. Hence they too appear as interpolations. These, are according to the author only meant for the Rgvedins. But as VSM consists largely of Reportions, these rules may also be helpful to students of the śukla yajurveda.

As regards the authorship of the work, the name Jayanta is mentioned twice in the body of the treatise. The name "Rāvana" also comes once at the foot note. (śikṣāsamgraha, p.224)

#### III. 2 (ix) Sodašaślokīśiksā

The name itself signifies the length of this work. The author's name is Ramkrishna. Here, some elementary principles, regarding the pronunciation of words are laid down in a clear manner. The contents of the work are.

- 1. Enumeration of letters.
- 2. Each of the original three vowels, which are the earliest and the most universal in the Indo-European languages can occur in 18 forms.
  - (i) hrasva, (ii)  $d\bar{r}gha$ , (iii) pluta. = 3 a.
  - (i) udātta (ii) anudātta (iii) svarita. = 9 b.
  - (i)  $s\bar{a}nun\bar{a}sika$  (ii)  $niranun\bar{a}sika = 9 \times 2 = 18$ . C.
- 3. Description of consonants.
- Description of some contracted terms. (pratyāhāras) 4.
- Description of the terms-sparśa, uşman, anthastha. 5.
- 6. The jihvāmūlīya and upadhmānīya are considered to be ardhavisargas.

- Description of the places of articulation kantha, tālu etc. 7.
- Rules making a student fit to pronounce the sounds properly. 8.

The author in the concluding verse states that this śikṣā has been emanated from the lips of Siva.

jayantasvāminā proktāḥ ślokānāmekavimśatiḥ/ svarāṅkuśeti vikhyātā bahvīcāṁ svarasiddhaye// 23

#### III. 2. (x) Avasānanir ņaya śikṣā

The authorship of this work "is ascribed to Ananta Deva. The name Ananta is well-known in the śukla-yajurvedic literature. The author of the commentaries on the *Bhasika sūtra*, the pratijñā sūtra, the sarvānukramanī of the katyāyana prāti śākhya and the svarāstaka śikṣā is ascribed to Ananta but Ananta, in some works is mentioned as Ananta-Deva and in some others as Anantabhatta. It is, therefore difficult to determine whether different authors where known by this name or whether the same person was intended as the author of different works.

This śikṣā was composed in 1946 (Vi-Sam) on Thursday, the full-moon day of the bright fortnight of phālguna (rasavedankendumite (1946) phālgune, śuklapaksake, pūrnimāyam gurorvāre'vasānānyan kitāni vai //

In this work, the fullstops (avasana) are enumerated as follows.

| 1. | dvyavasānā   | <br>1493 |
|----|--------------|----------|
| 2. | antyavas ānā | <br>233  |
| 3. | tryavasānā   | <br>150  |
| 4. | caturavasānā | <br>32   |
| 5. | niravas ān ā | <br>56   |

|    |               | Total = | 1975 |
|----|---------------|---------|------|
| 9. | navāvasānā    |         | 2    |
| 8. | sa ḍāvas ān ā | •••••   | 2    |
| 7. | pañcavasānā   |         | 2    |
| 6. | madhyavasānā  |         | 5    |

#### III. 2 (xi) Kramakārikāśikṣā

The authorship of this work is ascribed to Sambhu Mihsra. The first verse pays homage to Siva, the Lord of yogins, Yāj ñavaylkya and *Kātyāyana*. The author promises to describe all the *kramavasānas* of VSM. The process of kramāvasāna as defined by śikṣākāra in this śikṣā is as follows:

avagraho'nuvākānte ardharcānte rcām tathā / yajuṣām vākyāvasāne sviti sādhāraņo vidhiḥ // verse-6

The different types of kramāvasānas are

- 1. navestya, dvivestya, trivestya, caturvestya, madhyavestya, parñavestya, anta vestya.
- 2. dvivit, trivit, antavit, anuvākavit etc.
- 3. dvive stana, trive stana, caturve stana atyantave stana; anuvākāntavestana, antavestana etc.
- 4. dvyekatā, trayaikatā, caturaikatā, yugalaikatā pañcaikatā, ṣaḍaikatā, navaikatā, anuvā kaikatā etc.

Vestyā, Vestana, and vrt are, more or less synonyonous terms. This śikṣā states that for avagraha, anuvākānta (end of a subdivision of yajus) ardharcānta (end of a hemistich) and vākyāvasāna (end of a yajus)

only the general rules should be followed (sl. 6) In kramapāṭha, anusvāra preceded by a short vowel should be treated as long provided it is not followed by the word visa (sl. 6). The author of this śiksā gives sufficient illustrations from VSM. for different types of "Kramavasāna". The date of this treatise is not known.

#### III. 2. (xii) Vāśi sthīśik sā

It is the second in the list of śikṣās of the white Yajuraveda. It does not deal with phonetics proper, but it simply differentiates the RKsand the yajus portion in each chapter of the white Yajurveda. This work is based on kātyāyana's sarvānukrama, a fact which the author admits in the first verse. This is different from the Vāśisthiśiksā of the Taitt Sarihitā, since the latter deals exclusively with phonetic matter. It is a recent work and its authorship is unknown.

ENUMERATION OF THE RKS AND YAJUS IN VSM

| Chapter | Ŗk.      | Yaju ș.  |
|---------|----------|----------|
| i       | 1        | 117      |
| ii      | 12       | 76       |
| iii     | 63 or 62 | 34 or 36 |
| iv      | 21 or 20 | 65 or 66 |
| v       | 17       | 115      |
| vi      | 17       | 83       |
| vii     | 30       | 111      |
| viii    | 43       | 104      |
| ix      | 22       | 84       |
| x       | 12       | 102      |

| xi     | 76        | 26   |
|--------|-----------|------|
| xii    | 114       | 12   |
| xiii   | 52        | 87   |
| xiv    | 17        | i 54 |
| xv     | 46        | 90   |
| xvi    | 33        | 129  |
| xvii   | 95        | 11   |
| xviii  | 36        | 368  |
| xix    | 94        | 30   |
| xx     | 84        | 14   |
| xxi    | 218       | 33   |
| xxii   | 13        | 113  |
| xxiii  | 58        | 24   |
| xxiv   | nil       | all  |
| xxv    | 43        | nil  |
| xxvi   | 25        | 15   |
| xxvii  | 44        | 1    |
| xxviii | nil       | 46   |
| xxix   | 57        | 32   |
| xxx    | 3         | 170  |
| xxxi   | 22 (all)  | nil  |
| xxxii  | 25 (all)  | nil  |
| xxxiii | 119 (all) | nil  |
| xxxiv  | 62 (all)  | nil  |
| xxxv   | 21        | 6    |

| xxxvi   | 20        | 21 or 22                           |  |
|---------|-----------|------------------------------------|--|
| xxxvii  | 5         | 31                                 |  |
| xxxviii | 13 or 14  | 52                                 |  |
| xxxix   | 2         | 107                                |  |
| xxxx    | <u>17</u> | 7                                  |  |
| TOTAL   | 1467      | <b>2823</b> or it is 2823-5 = 2818 |  |
|         |           | ( athavā pañcabhirnýūnā)           |  |

#### III. 2. (xiii) Kāty āyanīśik ṣā

It contains only 13 kārikās along with a running commentary by Jayanta svamin. In this fragmentary work, an attempt has been made to describe the characteristics of the circumflex accent, both in the continuous and the word isolated texts. At the end, a short description of the accute, grave and pracaya accents are also given. Most of the rules prescribed here are a metrical version of those laid down in the Vāj. Prāt. IV. 131-141.

#### III.2. (xiv) Māṇḍavīśikṣā

This  $\dot{s}ik$ ,  $\ddot{a}$  is attributed to Māṇḍavya ( $\dot{s}l$ . 1), a name mentioned in the list of families in the 'Sat. Brā. The Mandavya families, according to Varahamihira, lived in the middle, the northwest and the north of India. The nature of the  $\dot{s}ik_{\bar{s}\bar{a}}$ , however seems to indicate that it is connected more with the middle and east than with the north. For, it is exclusively devoted to the enumeration of words containing the labial plosive "b" and "v" which was probably more common in the above mentioned areas than in the north.

#### ENVEMERATION OF THE LABIAL "B" SOUNDS IN VSM.

| <u>Chapter</u> |   | <u>No.</u> |
|----------------|---|------------|
| i              |   | 15         |
| ii             |   | 13         |
| iii            |   | 17         |
| iv             | • | 15         |
| v              |   | 16         |
| vi             | · | 12         |
| vii            |   | 14         |
| viii           | • | 8          |
| ix             |   | 25         |
| x              |   | 20         |
| xi             |   | 29         |
| xii            |   | 32         |
| xiii           |   | 15         |
| xiv            |   | 15         |
| xv             |   | 14         |
| xvi            |   | 15         |
| xvii           |   | 27         |
| xviii          | · | 24         |
| xix            |   | 36         |
| xx             |   | 28         |
| xxi            |   | 26         |
| xxii           |   | 13         |
| xxiii          |   | 33         |
| xxiv           |   | 28         |

| xxv     | 25  |
|---------|-----|
| xxvi    | 11  |
| xxvii   | 8   |
| xxviii  | 22  |
| xxix    | 27  |
| xxx     | 18  |
| xxxi    | 10  |
| xxxii   | 5   |
| xxxiii  | 34  |
| xxxiv   | 15  |
| xxxv    | 3   |
| xxxvi   | 4   |
| xxxvii  | 5   |
| xxxviii | 10  |
| xxxix   | 4   |
| xl      | 1   |
| Total   | 641 |

#### III.2.(xv) Keśavīśiksā

This is otherwise known as the Navārikas ūtra or the Paribhāṣānka sūtra. It contains nine sūtras with their commentry. The author is said to be the great astrologer keśava who admittedly follows the Pratijñā sūtra as it is evident from the concluding line of the śikṣā. 12 Kielhorn in his "Remarks on the  $\dot{s}ik\dot{s}\bar{a}s$ " ascribes the authorship of this  $\dot{s}ik\dot{s}\bar{a}$  to

<sup>12.</sup> iti śrīdaivaj ñake śavak tā pratij ñās ūtrānus āri ņī ke śavīśik ṣā samāptā // SS.p.121

<sup>13. &</sup>quot;Remarks on the śikṣā", IA 5; p. 142

kātyāyana and only the commentary, and six karikās to Keśava. However it is hardly likely that so ancient an author as kātyāyana would actually be the author of this work which deals with some of the comparatively recent phonetic changes which are characteristics of Modern Indian vernaculars. Each sūtra, here deals with a separate subject. As those subjects seem to be of great importance to phonologists and they are specified below.

- At the beginning of a word, the letters "y" and "v" being 1. preceded by vowels or the preposition."sam" should be pronounced double e.g.
  - (i) tvā vāyava .....tvā vvāyava (i.ii)
  - (ii) tvā yunakti .....tvā yyunakti (i. 6)
  - sam vapani ...... sam vvapani (i.21) (iii)
  - sam yaumi .....sam yyaumi (i.22) (iv)

In the commentary author also gives counter illustrations of the above sūtra.

- In the interior of a word, the letter "y" combined with the 2. letters "f", "h" or "r" should be pronounced like "j" e.g..
- samanyrgbhih.....samanjrgbhih(xx.11) (i)
- panibhirgūhyamāna.....panibhirguhjamāna (ii.17) (ii)
- (iii) ghṛtacīryantu haryata ....ghṛtacīrjyantu haryata (iii.4)
- 3. In the interior of a word the letter "s" should be pronounced as "kh' except, if the "\$\mathcal{S}\$" is combined with the letters of the retroflex mute series e.g.

- (i)  $\bar{l}$  is  $\bar{l}$   $\bar{l}$
- sarve sām.....sarvekhām (\$at.Brā) (ii)

The above rule applies to the Brāhmana also. Counterillustrations: (1) Śresthatamāya (1.1) Whers "s" being combined with "th' is not pronounced as "kh"

- 4. In the interior of a word, if a the letter "r" is combined with a fricative which is not joined with any other consonant, it should be pronounced as "re' e.g.
- i. darśatam.....dareśatam (xxxviii.17)
- ii. parśavyena.....pareśavyena (xxxix.8)
- iii. śatavalśo.....śatavaleśo (v.43)
- hvār șit.....hvāre șit (1.2) iv.
- burhişe tvā.....barehise tvā (iii.1) v.

This rule is applicable to the letter "1" also, because both the letters "r" and "1" are considered as homorganic (savarna). These two letters are very widely interchangeable both in roots and suffixes and even in prefixes.

In "hvārsit" (1.2) as the repha stands in the middle of "in" contraction, the following "s" is cerebralized according to the rule āde śapratyayayo h (pan. viii. 357) which states that the letter "s" in the interior of a word is cerebralized, if it is preceded by "in" contraction or the velar mute-series. Hence the above illustration is the same for both "s" and "s".

### Counter illustrations

- Yaj ñapatirhvār șit (i-2) where the letter "h" is joined (i) with another consonant "v", so this rule does not apply.
- Sīrṣṇo dyauh (xxxi-13) where the letter "s" is joined (ii) with another consonant "n". Hence this rule does not apply.
- ūrjetvā (i.1) where the letter "r" is joined with "j" a (iii) letter other than the "Sal" contraction pratyāhāra. So this rule does not apply. The keśavīśiksā does not recognise the "svarbhakti" in the in junction of r+r.

## Counter illustration:

- i) vayaskrtarii sahaskrtam (iii-18)
- ii) bārhaspatyāh pṛṣatī (xxiv.2). etc.

where doubling of the mute series does not occur since the latter is combined with "r".

- 5. In the interior of a word, the anusvāra becomes long, short, or heavy. If it is followed by  $\dot{s}$ , s, s, h and r. It becomes long after a short vowel, short after a long vowel and heavy, before a conjunct consonant.
  - a) Long anusvāra
    - i) bhūyāsarin sugrhapati h (ii.27)
    - ii) śatam himāh (ii.27)

iii) sam rāyah (iii.19) etc.

#### Short anusvāra b)

- i) yajumsi nāma (xii.4)
- ii) iṣāth rayīṇām (iii.13)
- iii) prthivyām śatena (i.25) etc.

#### Heavy anusvāra **c**)

- i) bhesajam śriyā (xxi-38)
- ii) damstrābhyām (xi-78)
- iii) havīmsyā (xix-20)

## Counter illustration

bhāgam prajāvatī(1.1) where the anusvāra is not heavy, since it is not followed by Sal or repha. In the interior of a word, the whole mute series combined with "r" should be doubled-provided:-

- i) it is combined with the preceding "\$" "s" or "s"
- ii) or preceded by visarga, and combined with a following repha.
- e.g. i) askkannamadya (ii.8) puskkarasrajam (ii-33) etc.
- ii) agne hppriyam (ii.17) brhanta h pprastare sthāh (ii-18) etc.
- In the interior of a word the letter "s" followed by "v" or 6. "y" should not be doubled.

i) svāsasthām, svāhā (ii.2) e-g

This seems to be an exceptional rule. But, here it should be noted that no mention has been previously made of the doubling of "s" which might necessitate an exception.

- 7. In the interior of a word the letter "r" whether joined with consonants or not, should be pronounced together with the sound "e"
  - i) *kṛṣṇośi.....kreṣṇośi* (ii.1) e-g
    - ii) pitṛmate.....pitremate (ii.29)
    - iii) rtviya.....retviya (iii.14) etc.
- 8. In the interior of a word a short letter should be pronounced as long. But this elongation does not take place, if the short letter is followed either by the letter "a" (whether in combination with consonants or not) or by a letter joined with a consonant or visarga.
  - i) iśe tvorje tvā vāyavastha (i.1) e-g

Here the letters "*ī*" "*va*" and *stha* should be sounded as long, but in savitā (i.1) "sa" and "vi" should not be sounded as long being followed by ā in tā.

i) māghaśaṁso dhruvā asmin gopatau syāta (i.1) etc.

Here the letters "gha" "pa" and "ta" should be sounded as long.

## **Counter illustrations:**

## yajamānasya (i.1)

Here, this rule does not apply, as the letter "ja" is followed by  $\bar{a}$  in  $m\bar{a}$ . Hence "ja" should not be sounded as long. This may be compared with the  $pratij\,\bar{n}\bar{a}s\,\bar{u}tra$ , " $isat\,d\bar{i}rghat\,\bar{a}\,ca\,bhavati$ ". The vowel length should be more than one  $m\bar{a}tr\bar{a}$  and less than two, in the above cases i.e. it should be about one and half a  $m\bar{a}tr\bar{a}$ .

The above nine rules are briefly enunciated by the author in sik. kārikās which will be useful as mnemonics only to the close student of this treatise. They will not serve any purpose for the general reader since they abound in technical terms. The subject of this treatise is the proper pronunciation of the text of the Mādhyandina recension. These rules of pronunciation seem to be purely arbitrary and in these days, the pronunciation of "kṛ" into "kre", of "gūhya" in to "guhja" and "se" into "khe" require special instruction. It may be guessed that such works on phonology had their origin mainly in a desire to keep up the traditional method of handing down phonological instruction followed by early vedic seers. It is a well known fact that even pandits who belong to some places in Eastern India pronounce "y" as "j" and a general distinctness of sounds may also be observed in their ordinary discourse in Sanskrit.

It is stated that the author of Sarvasammataśikṣā is also Keśava. But regarding the identity of Keśava with the author of this work, there is no evidence

## III.2.(xvi) Keśavīśikṣā (in verse)

The author of this work is also the same Keśava, son of Daivajña

Gokula belonging to the genealogy of Astika. It contains 21 kārikās. The topics fall under the following heads.

- i) Manual gestures for accents (I-6)
- ii) Pronunciation of the letter "y" (7-8)
- Pronunciation of "r" and "i",(9-11) iii)
- Pronunciation of "v" (guru, laghu and madhyama) 1,2-13 iv)
- Pronunciation of "s" (14) v)
- Three kinds of anusvāra (hrasva, dīrgha and guru) (15-17) vi)
- Pauses of the voice in pronunciation (18-19) vii)
- The authorship of the work. viii)

A careful study of the treatise will lead one to think that it is not a complete work like some others on the same subject. This work also lays down rules to be adopted by a student of the Vedas.

## Ш.2. (xvii) Vedaparibhāṣāsūtraśikṣā & (xviii) Vedaparibhāṣākārikāśikṣā

These two works of which the author is Rāmacandra, son of Siddheśvara are considered to be the guides to the pāda-text. The latter work, which contains only 10 kārikās with a commentary, is as it were, a supplement to the former, which is in sūtra form. The first accurately gives in certain symbolic words, each containing four letters, the number of Rks, anuvākas and pādas in each chapter of the VSM and the second book explains these symbols. These two śikṣās have been incorporated in a special treatise entitled as- atha visargāngulipradarśanaprakāramāha bhagavān maharşi yājñavalkyaḥ

Some of the symbols of the veda paribhāsasūtrasiksā may be

explained here in the manner they have been explained in the "vedaparibhaṣākārikāsikṣā". The symbols are named "śuthighasvah" "¡īvatidah" "cudhācīpūh" "niticata" etc. The first letter in each symbol indicates the total no. of words in an anuvāka, the second indicates the no. of words occurring with visarga and "n", the third indicates the no. of words occurring with avagraha and iti, in the word text, the fourth indicates the number of words ending with m, k, t, t, n, and n, the fourth letter also indicates the number of words ending with "si" and "tu" provided the corresponding symbol ends with visarga e.g. in śarmāsi (VSM.i-14) etc. The words ending with "si" are eight; those ending with "tu" are five. Thus the total number becomes thirteen which is indicated by, the fourth letter "d" of the symbol "jīvatiduḥ". Ending with visarga, the symbol indicates an odd number and without visarga, it indicates either an even number or the zero number (of word ending with "si" and "tu") e.g. the symbol "ghadhajhaca" not ending with visarga for "vasoh pavitram" (1.2) having only one word ending with "si" and only ending with "tu". Thus the total number becomes two, which has been specifically mentioned in the śiksā after the above symbol.

An even number of words ending with "si" and "tu" is always specifically mentioned after the symbol.

# (i) The method of calculation:

The sphere of calculation is between "k" (क) and "h" (ह). The total number of consonants from "k" (क) to "h" (ह) is thirty three. Hence "k" indicates one, "kh" two, "g" three, "gh" four "c" (च) six etc. e.g. in the symbol "guthighasva" "g" in "gu" indicates three and (3) "th" in "thi" indicates twelve. The symbols generally use a conjunct consonant to indicate a high number e.g. "ji nvithaduh" for "kavyavāhanāya" (ii.29)

where " $\dot{n}$ " ( $\bar{s}$ ) indicates five. "v" ( $\bar{a}$ ) twenty nine, hence the conjunct "nv" indicates the total number thirty four.

The symbols use only ten vowels (with the exception of "r" ( $\pi$ ) and "1" (লু) the first letter in each symbol uses one of the ten, while the second, third and the fourth exclude "a" (अ) and use one of the remaining nine vowels. In other words in the first letter one calculates from "a" and in the rest three letters from "ā" (आ) e.g. in "guthighasvah" "u" (3) in "gu" (गु) indicates five but "i" (इ) in "thi" (वि) indicates two (not three).

Further, "a" (अ) in the second, third and the fourth letters, i.e; "a" (अ) in "gha" (ঘ) of the above symbol indicates zero. To indicate a number higher than nine (usually in the second, third or fourth letter) the author puts a repha-sign above the vowel e.g. the fourth letter "rhi" with the repha-sign in the symbol for "upaprayantah" (iii.11) indicates twelve (repha-sign 10+"i"2=12).

Among all the symbols of the vedaparibhāṣās ūtra śikṣā there are only two rephas:

- a) "herhayārna" for samudrāya (xxiv.21)
- b) "phautvirdarśiḥ" for sahasraśīrṣāḥ (xxxi.1)

The number indicated by repha, 10+ the number of vowels in the second, third or fourth letter, 9=19. But, to indicate a number higher than nineteen (usually in the second, third, or the fourth letter) the author puts the anusvāra sign above the vowel. e.g.- the symbol for yā oṣadhiḥ, (xii.75), has anusvāra above the vowel. "o" of the fourth letter. The total number is 15+8=23, where anusvāra indicates 15, O indicates 8.

- **i**) The number of words in an anuvāka: The number of words in an anuvāka is known by the following process. Multiply the number of consonants in the first letter of the symbol by ten. Then add to the resultant, the number of the vowel in the first letter. The final resultant number thus obtained, gives the number of words in an anuvāka e.g the symbol "ñābhudhudhiḥ" for "ādade" dhvarakṛtam (i.24) where the consonant "n" (in the first letter of the symbol) indicates ten; multiplied by ten, it gives the resulstant number "hundred" to which the number of the vowel " $\vec{a}$ " (i.e.2) in the first letter " $\vec{n}\vec{a}$ ") has been added. The final resultant number thus obtained in one hundred and two (10x10=100, 100+2=102), which is the exact number of words in the above anuvāka.
- The number of visargas in an anuvāka: It is indicated by the ii) consonant in the second letter of the symbol, e.g. the consonant "bh" in the second letter "bhu" of the symbol "ñābhuḍhudhiḥ" indicates twenty and this is the exact number of visargas in the anuvāka ādade dhvarakṛtam (i.24).
- iii) The number of words ending with "m" in an anuvāka: It is indicated by the consonant in the fourth letter of these symbols, e.g. the consonant "dh" in the fourth letter "dhi" of the above symbol, indicates nineteen and this is the exact number of words ending with "m" in the above anuvāka.
- The number of words ending with "n" in an anuvāka: It is iv) indicated by the vowel in the second letter of these symbols e.g. the vowel "u" in the second letter of " $bh\bar{u}$ " the above symbol indicates four and this is the exact number of words ending with

"n" in the above anuvāka.

- The number of words ending with "iti" in an anuvāka: It is v) indicated by the vowel in the third letter of these symbols e.g. the vowel "u" in the third letter of "dhu". The above symbol indicates four and this is the exact number of words ending with "iti" in the above "v" anuvāka.
- The number of words ending with "k" "t" "t" "p" "n" and vi) "n" in an anuvāka: It is indicated by the vowel in the fourth letter of these symbols. e.g. the vowel "i" in the fourth letter "dhi" of the above symbol indicates these which is the exact number of words ending with "k" "t" "p" "t" "n" and "n" in the above anuvāka.
- The number of "avagrahas" in an "anuvāka": It is indicated vii) by the consonant in the third letter of these symbols, e.g. the consonant "dh" in the third letter "dhu" of the above symbol indicates fourteen and this is the exact number of "avagrahas" in the above anuvāka.
- viii) In calculating the number of visarga in an anuvāka only three types have been approved.
  - visarga, in the interior of a word, e.g. duhsahau (2) i)
  - visarga in "avagraha" i.e. after "iti" e.g. "duh sahau" "iti ii) duḥ sahau".
  - visarga at the end of a word, e.g. vāyavah. iii)
- In calculating the number of words ending with consonants in an ix)

anuvāka, only three types have been approved:

- i) consonant (any one of "k" "t" etc.) in an "avagraha" i.e. after "iti" e.g. the consonant "ग्र" (ण) "in vṛṣaṇvasu" "iti vrsanvasu"
- consonant at the end of a word e.g. the consonant "t" (त) in ii) "avardhayat".
- consonant ending with "si" "tu" and "se" iii)
  - a) in an avagraha, i.e. after "iti" e.g. yātudhānā, iti yātu dhānā (tu)
  - b) at the end of a word e.g. punātu (tu)

The following eight consonants viz. "k" "t" "t" "p" "n" "n" "n" and "m" occur both in avagraha and at the end of words. Out of these eight, the first and the last occur very often at the end of words.

(prathamottamāh padāntīyā ac nau) This sūtra of Vāj. Prāt. has been quoted by the author in this treatise. Hence the present treatise seems to be later, in its date than Vāj.Prāt.

## III.2.(xix) Samketabodhikāśiksā

This is the latest among the śikṣās belonging to the white yajurveda. It explains the devanāgarī orthographic symbols used in the Vaj. Sam. It's author is Amarnath Sastri, son of Gangadhar Sarma and Valli Devi both belonging to the Sārasvata Brahmin family. It was composed in the year 1986 (vi sam) in the city of Fatehpur for the benefit of the students of Sakambarī Sanskrit College. The symbols as they have been explained by the author of this treatise are as follows:

- i) A vertical stroke above a letter, indicates the circumflex accent gaṇānāth tvā gaṇapatim गुणाना त्वा गुणपति ५ (xxiii.19)
- A horizontal stroke below a letter indicates the grave accent e.g. ii) garbhadham गर्भधम् (xxiii.19)
- A letter without any mark, after the anudātta, indicates the acute iii) accent e.g. gaṇānāṁ गुणाना (xxiii.19)
- A letter without any mark, after the svarita, indicates the pracaya iv) accent, e.g. nāṁ tvā नां त्वा (xiii.19)
- The sign "w" below a letter indicates the purnanyubja v) svarita, e.g. (prasavesvino) प्रमुवेश्विनो (1-10)
- The sign "L" below a letter indicates the ardhanybuja vi) svarita e.g. vedo'si (वेदोऽसि)14
- A horizontal line between the two points of visarjanīya indicates vii) the ubhakṣepa svarita, it is called "pracita" because it occurs after the svarita e.g. devo-vaḥ-savitā (देवो व ÷ सविता)
- "repha" between the two points of the visarajanīya following viii) the *udātta*, is called "*tāra*" which indicates "*tarjaniksepa*" (egress of the index finger) e.g. sahasrāksah सहस्राक्ष: (xxxi. 1).
- An inverted "repha" between the two points of the visarjanīya ix) following the pracaya, is called "valika" which indicates "kanişthakşepa" (egrees of the little finger) e.g. puruşah पुरुष: (xxxi.1).

- The moon-like spot ( ) followed by the numeral "2 1/2 or "1 1/ x) 2" indicates the ranga vowel, e.g.
  - a) mahā "2 ½" indrao महाँ२ / ्रइन्द्रो (vii.39).
- The sign of "avagraha" between two vowels, indicates xi) "vivṛtti" (hiatus) e.g. "nābhyā" āsīda नाभ्यां ऽआसीद... (xxxi.13).
- The bow like spot (\vartheta) indicates the light anusvāra, the same xii) being followed by a conjunct consonant indicates the heavy anusvāra e.g.
  - a) yajuṁṣi (यजू ५५ षि)(xxxiv.5) light anusara.
  - b) सूर्य ध् स्वाहा ॥ (vii.41)
- The letter 'ya' (य-य/य) with either a point or an oblique line in xiii) its center indicates its 'ja' pronunciation e.g. yajñena yajñam (xxxi.16) will be pronounced as jajñena jajñam/ यज्ञेन यज्ञम्.

The autror has dedicated this treatise for the delight of  $\dot{s}r\bar{t}$  and śrīnātha.

# III.2.(xx) Pārāśarīśikṣā

It names eight śikṣās viz. (i) yājñavalkya (ii) vāsiṣṭhī (iii) kātyāyanī, (iv) gautamī, (v) māṇḍavī, (vi) amoghānandinī, (vii) pāṇinīya, (viii) mādhyandinī (pārā. śik. 77-78). It professes itself to be the foremost among all śiksās.

"Like the all pervading absolute among gods, like *puskara* among holy places, the *pārāśarīśikṣā* is eulogized in all scriptures"!

yathā deve su visvātmā yathā tirthe su puşkaram /

tathā pārāsarīśikṣā sarvaśāstreṣu gīyate // (SS.p-46)

According to the caranavyūha, (19) it belongs to the parāśara recension of the white yajurveda. But as it mentions almost all the important śikṣās of white yajurveda, it should be posterior to them. So far as it's present form is concerned, although it's kernel might have been much older. Besides puṣkara, it also mentions kumbhīpāka (SS.p-58) to which people mispronouncing Vedas are bound to go. 15 It calculates the letter of each kāndikā of the white yajurveda and describes the method of their pronunciation, some euphonic rules are also stated here and there without any order or arrangement. Some of it's original contributions are:

> The half long vowel (ksipra): The vowels are divided as (a) short, half-long, long and *ultra* long (*pluta* or *vrddha*). Of these four varieties, the half-long or ksipra is interesting and it's quantity is one-half of that vowel. The pārāsarīśikṣā states that:

kṣipram dīrgham samākhyātam angulyām ekamantaram / dīrghasyārdham bhavet kṣipram nāsti dīrghasya dīrghatā // yathā sankhyā tu dīrghasya tathā coşmā prakīrttita/ ūṣmā dīrgham samatvam ca kṣipram kuryāt tadardhakam // verse 26-27.

Which may be translated as "The ksipra variety of the long vowel is said to be an interval of a snap of the finger; the ksipra has one-half the quantity of the long vowel. A long vowel cannot be further lengthened (presumably referring to sandhi rules, in which two longs = one long).

<sup>15.</sup> anyathā nirayam yanti kumbhipākam ca dārunam-verse 114- SS.p-57.

The number (of moras) of the fricative is said to be equal to that of a long vowel; half of it's quantity should be taken as the ksipra"16

Thus in  $p\bar{a}r\bar{a}.\dot{s}ik$ , the quantity ascribed to the ksipra, appears to be contradictory as it may be confused with that of a short vowel, which is also measured as one-half the quantity of a long vowel. The śikṣā further states that-

mātrā saha bhaveddīrgham hrasvam mātrā vinā bhavet/ ityakşaram vijānīyātkşipram dīrgham bhavēditi//verse-25.

With a mora added, the vowel becomes long, and with a mora reduced, the vowel becomes short (hrasva). Know this to be the quantity of a vowel. The kṣipra is a long vowel. The śikṣā does not give any examples of ksipra but some other śikṣās give examples of slightly long vowel. The ke śav īśik ṣā says that in the samhitāpātha of the Vājasaneyī School, a short vowel is pronounced slightly long. For example:

- *ī in īṣe tvorje-* will be pronounced slightly long. a.
- b. the short a' in vāyava stha devah/ will be pronounced slightly long.
- the i in paśūn pāhi-will be pronounced slightly long. C.

But when the short vowels are followed by a syllable containing a long  $\bar{a}$ , they are not lengthened as in the place of the 'a' and 'i' of Savitā, 'a' in 'ja' of yajamānasya etc. are not long.

> "v" as the product of euphonic combination between b)

<sup>16.</sup> S. Varma-p. 178.

<sup>17.</sup> hrasvam kimcid dīrgham halyutākāre halvisargayugvar ne ca na sa mhitāyām ke śavīśik ṣā sūtra-9; SS. p. 120

"au" and "a" is laghutara (lighter). This view of the pārās. śik., was based on accurate observation of phonetic changes in Vedic Sanskrit and actual pronunciation of the sounds in the dialects as "v" which was the product of samdhi and subject to elision.

- c) *Pārās. śik.* observes that the intervocalic double 'k' in kukkuṭa should be pronounced double in contrary to the Vāj Prāt's rule IV.144 which states this to be pronounced as ekavarnavad:
- i) kukkuṭaḥ kāma-lubdho'pi kakāra-dvayam uccaret / evam varnāh prayoktavyāḥ kukkuṭo'si nidar śanam // verse-69
- ii) dvivarņamekavarņavaddhāraņāt svaramadhyē samānapade Vāj Prāt. IV, 144

For example:vyattam (xxxi.22) kukkutah (i.16)

Towards the end, it gives a few didactic verses, which are very useful to the young students. It is a complete śikṣā and gives a large number of examples from the SYV.

# III.2. (xxi) Amoghanandinīśikṣā

It is composed on the same lines as Yāj. & Pārā. śik. but to some extent, its object seems to have been similar to that of māndavī śikṣā for it gives a list of words with an initial-labiodentals. "v" and another with the labial plosive "b". Besides this, it deals with the following topics.

> The letters, which appear in their short longer forms in the a) samhitā.

- The change of a short letter into a long one if it occurs in b) the *pāda* text.
- c) The three different pronunciation of "va" (guru, laghu and laghutara) 26-29.
- The characteristics of *nāda* and *anunāsika* with examples d) 30-43
- The five kinds of ranga. 44-onwards. e)
- Enumeration of the seven plutas in VSM- verse 47. f)
- The method of pronunciation of letters 50 onwards. g)

The letter "r" here is designed as mrdu, for it is neither doubled nor conjunct. It is always heavy at the end of a sentence. In this context, it quotes Saunaka, it also contains many interesting didactic verses.

## III.2.(xxii) Laghu-amoghanandinīśikṣā

This is a small treatise containing 17 kārikās. The verse 13 speaks of the sūtrakāra kātyāyana. Hence it is later than the Vāj Prāt. It deals with the following topics.

- Rules regarding the pronunciations of "y" (1-9) i.
- Rules regarding the pronunciations of "v" (19-14) ii.
- Rules regarding the pronunciations of anusvara in different ·iii. moras (14-16)

The conditions under which "y" is pronounced as "j" and as "iṣatspṛṣṭa" and those under which anusvāra is pronounced in different moras are defined with sufficient illustrations.

## III.2.(xxiii) Mādhyandinaśiksā

There is no sufficient evidence to identity the author of this work with the sage Mādhyandina, who is known as the preceptor of the one of the schools of the VSM. The work begins with the well-known verse, which states that the *mantra* should be pronounced without any fraction or elision of accent pitches and letters respectively. It deals with the following topics. It states first the verse mantrohīnah svarato varnato vā etc. Then-

- 1. Doubling of letters (1-7)
- 2. Enumeration of the velar "kh" sounds which have been estimated to number 29. atra kavargīyakhakārā nirdi śyante / 9-29.
- 3. Enumeration of the repeated rk portions, which have been estimated to number 1975.

"evam catuṣṣaṣthyuttaraśatam lopāh/ ekādaśottaramastādaśaśataissaheti //"

# III.2.(xxiv) Laghu mādhyandinīśikṣā

This is an abridged from of the *mādhyandinīśikṣā*. It contains 28 kārikās. Verses 1-14. lay down the same rules as given in the keśavī śikṣā. The subjects described here can be classified under the following section.

- 1. Euphonic combination (1-15)
- *ayogavāha* (16-22) 2.
- Indications of accents by fingers (22-28) 3.

In the first section, only some of the important euphonic changes are defined. They are:-

- 1. The changes of "sa" (1)
- The changes of "ya" (2-6) 2.
- The three kinds of "va"-guru (heavy) laghu (light) and 3. laghutara (ligher) and their application. (7-9)
- Alternation of r and I(10-11)4.
- 5. Three kinds of anusvāra (hrasva, dīrgha and guru) and their application (12-15).

## III.2.(xxv) Yājñavalkyaśiksā

It is the most complete among the śikṣās of white yajurveda. Tradition ascribes the authorship of Yāj ñavalkya to it. Verma, however, dissents from this view and rejects the authorship of Yāj ñavalkya because his name appears three times in the body of this treatise. 18 By an internal evidence, he attributes the authorship of this work, in its latest form, to Soma Sarma. Pandit V. Venkat Ram Sarma objects to this view and observes:-

"Siddhesvara Varma has pointed out among so many other things that the Yājñavalkyaśikṣā is a much later work; it's author is one Soma Sarma and not Yājñavalkya; his date should not be earlier than 5th century A.D. and later than the 10th century A.D. He has also said that in several instances this śikṣā quotes the kātyāyana prātiśākhya. So these evidences and similar other conclusions of Varma are merely his own imaginations and have little value". 19

Sharma finally states that yāj ñavalkyaśiksā is older than kātyāyana

<sup>18.</sup> varno jāti śca mātrā ca gotra in chandas ca daivatam / etat sarva*i*n samākhyatam yājñavalkyena dhīmatā //

<sup>19.</sup> Venkatarama sarma V. Critical studies on Kātyāyana's śuklayajurvedaprāti śākhya. Madras, University, Madras, p-82

prātiśākhya, because kātyāyana quotes some passages from yāj ñavalkya śikṣā.<sup>20</sup>

Thus Varma and Sarma give two opposite views on the priority of the  $Y\bar{a}j.\dot{s}ik$ . to the  $V\bar{a}j.Pr\bar{a}t$ . From the available data, it is difficult to determine which of them is earlier. Besides Yāj ñavalkya, this śiksā also quotes other authorities such as Soma Sarmā, Āpastsmba, Mādhyandina and Śaunaka (yāj. śik. 11.2.40; 11.3.77)

From this it may be presumed that the *yāj*. śik. in its present form is posterior to the Brhaddevatā and Rk.Prā. Both being attributed to Saunaka. The date of the Brhaddevatā according to Macdonel, is anterior to the Sarvānukrama and posterior to the Nirukta. Hence, the vāj śik. is probably latter than Rk. Prāt. the Nirukta and Brhaddevatā.

Kielhorn identifies the yāj. śik. with the kātyāyanīśikṣā, although the two are recognized to be different works by most of the authorities. In some Mss., the yāj śik. is designated as the Brhatśikṣā. Both as regards it's contents and the number of ślokas, this treatise resembles the Mānduki more than other śikṣās.

The yāj śik. in its extant form is available in four different editions. Among these, the first, by Pandit Jvalā Prasad Misra (Bombay, vi.sam.1959) has been edited with a hindi translation; the second by Pandit Viśvanāth Sarma (Dehradun, vi sam. 1973) has a commentary named śikṣāśloka; the third, by Pandit Yugal Kisore Vyās which occupies the first place in the SS (Banaras, 1989 A.D.) and the fourth perhaps, the best and the latest one, comes from the hand of Sri Amarnath Sastri along with an exhaustive commentary named śikṣāvalli. The yāj. śik. occupies the first place in the SS. on account of its importance and superiority over other śikṣās. It bears the same relation to the Vāj.Prāt. as does the Vya. śik to the Taitt. Prāt. It deals with all most nearly all the phonetic topics elaborately.

The yāj.śik., attributed to the celebrated sage Yājñyavalkya pertains to all the recensions of  $\dot{S}YV$  and is the most complete one among the Śikṣās of ŚYV. Sage Yājñavalkya obtaining the Yajurveda from the God Surya, taught the same to 15 disciples named Mādhyandina etc. So in this Śikṣā also all the principles of pronunciation and recitation of Vedic mantras relating to all the recensions are to be found.

Śikṣā contains two prakaranas entitled "svaraprakaranam" and "varnaprakaranam". Each prakarana contains various topics.

For Example:- "Svaraprakarana" consists of four following divisions

- i. mātrādhikārah.
- ii. adhyayanavidhyadhikāraḥ.
- hastacalana vidhyadhikāraḥ. iii.
- svarasamhitāvidhyadhikārah. iv.

In the varnaprakarana five subjects are dealt with as follows:

- var nadevat ādyadhikāra h. i.
- ii. sandhyadhikārah.
- iii. varnoccāranādhikārah.
- padādhikāraņ. iv.

#### prakīrņakādhikāraḥ. V.

In the above adhikāras various subjects have been analysed some of which are follows. In the mātrādhikāraḥ, the pitch accent like udātta etc. have different colours as white etc. These accents are also predominated by different deities as Agni etc. The jāti of different accents like Brāhmaņa etc., their gotras like Bharadvāja and the chhandas relating to different accents are also determined. After that the seven svaras starting from "Sadja" are described here as belonging to three pitch accents as follows:

gāndharvavede ye proktāḥ saptaṣaḍjādayaḥ svarāḥ ta eva vede vijñeyāstraya uccādayah svarāh / uccau niṣādagāndḥārau nīcāvṛṣabhadhaivatau śeṣāstu svaritā jñeyāḥ ṣaḍjamadhyamapañcamāḥ //verses- 6-7

In this context the process of reciting the different svaras like 'sadja' etc. are also depicted in this Śikṣā. Moreover while uttering the mantras, the principles relating to various moras along with the time of the utterance of different moras have been instructed.

An interesting feature of this  $Sik_{\bar{s}\bar{a}}$  relates to the principles regarding the recitation of Vedas. In this context, the placement of different limbs of the body during the recitation of Vedic mantras has been determined. The different possible blemishes or faults during the utterance of varnas are hinted upon. An estimation of the person having qualities for perfect utterance of mantras as well as the determination of his disqualification of perfect utterance is also found in this Śikṣā text. The reward for the recitation of *Vedic mantras*, brushing of the teeth by the sticks of specific trees like khadira etc are also advised in this Śikṣā. The verbal recitation of *Vedic mantras* without specific hand movement

is considered here as faulty. The seven blemishes of hand movement, the harmony of hand movement and vocal utterance and various vittis of recitation of *mantras* have been instructed here.

In the third adhikāra, which relates to the principles of hand movement, the specific rules for the movement of finger have been determined. While showing the different pitch accent the different types of "hastanyāsa" have been enumerated in this text.

In the fourth adhikāra which is related to svarasamhitāvidhi", the definition and the examples of eight types of svaritas like jātya etc have been described.

In the "varṇaprakaraṇa" the deities relating to different varṇas have been enumerated. After that the varna, the gotra and the deity of four types of padas like nāma, akhyāta, upasarg, and nipāta have been enumerated. In the second adhikāra, which is known as sandhyadhikāra, the following subjects are discussed.

- 1. Four types of sandhi along with their examples
- 2. The nature of *vivitti*, in the *prakitibhāva sandhi*.
- 3. Four types of vivitti like पिपिलिका "Pipilika" etc.
- 4. The nature of svarabhakti along with the example in the SYV
- 5. In this adhikara the speciality of "य" and "व" is mentioned as follows.

bakārastribidha prokto gururlaghulaghūtara ādau gururlaghurmadhye padānte ca laghūtara / yavarnastrividha prokto garurlaghulaghūtara

ādau gururlaghurmadhye padānte tu laghūtara //

By this verse the specific places have been showed where the syllable "य" is to be pronounced as long, short, shorter. The three types of "वकार" are also found mentioned here.

In the third adhikāra of Varņoccāraņavidhi the local tradition relating to ह कार is mentioned and after that the nature of ranga in the context of utterance of varnas along with it's various divisions and examples have been determined. In the fourth adhikāra the speciality of utterance of padas, the praise of the trained reciters, censure of the faulty reciters, the significance of laya, sāma etc. have been discussed. The yama letters, their numbers along with the examples are enumerated in the fifth adhikāra. In this adhikāra, the interesting advises have been imparted as to the principles of study for the increase of memory power and for the need for a worthy teacher. More over, it is stated here that the instruction of the teacher is to be accepted only if it is justified but not because of the words of the teacher. Thus the Śikṣā concludes.

yuktiyuktam vaco grāhyam na grāhyam gurugauravāt / sarvaśāstrarahasyam tad yājñavalakyena bhāsitam // yāj. śik verse-232

# **CHAPTER-IV**

COMPARATIVE ANALYSIS OF **SUKLAYAJURVEDIC SIKṢĀS** 

## CHAPTER-IV

# COMPARATIVE ANALYSIS OF **SUKLA YAJURVEDIC SIKSĀS**

#### **IV.0** Basis for the Analysis

At the outset it may come to one's mind why so many śikṣās are related to the  $\dot{S}YV$ , when one  $\dot{s}iks\bar{a}$  text may explain the principles relating to svara, varna and the manner of utterance etc. The answer to this question lies in the fact that the utterance of vedic mantras and the Vedas themselves is very mystic. So different śiksā texts explain the intricacies which have been left out or not dealt with in other śiksā texts along with the general rules. In this manner a number of śikṣā texts are to be found associated with the SYV. But the śiksā texts do not consider or explain all the subjects, rather there are certain topics which are common to most of the śiksā texts along with some specific subjects of discussion. The analysis of SYV. śiksās are being done here as per the following three aspects:-

- 1) Points of similarities
- 2) comparative analysis of the similar subjects dealt upon by various śiksās
- specific peculiarities of the śikṣās (3)

#### **IV.1** Points of similarities

# IV.1.(i) Enumeration of the alphabet

Like Pān. śik., one will find in varņaratnapradīpikā śikṣā 63 letters. But the speciality of this text is that the Pān. śik. enumerates 64 letters accepting দ্বাব্ৰনাং: as one letter. But pluta 1 is not mentioned here.

Śodasaślokī śikṣā mentions the las the fifth vowel. In this śikṣā, the number of vowels, the number of consonants, the number of yama letters, the divisions of vowels into hrasva, dīrgha, and pluta, the accents like udātta, anudātta and svarita, the nasalisation of vowels and the vowels without nasalisation are found detailed enumeration. The places of utterance of consonants are also enumerated in this śiksā. In the Yāj.śik., the list of letters has been divided into four categories: svara (vowel), sparśa (stop), antahstha (semivowel) and usma (aspirant). Along with this the anusvāra, the jihvāmūlīya, the upadhmānīya, the nāsikya, the anunāsikya the ranga, and the yama letters are also mentioned. Though the number of letters in each category has not been mentioned, still it is important as it mentions 68 varnas altogether as accepted by the śikṣākāras. In the Pān. śik., twentytwo svaras have been enumerated. Only by including long 'I' their number becomes twentythree.

The various categories of alphabet found in the  $\dot{siksas}$  of  $\dot{SYV}$ may be listed as below.

- i. svara (vowel)
- ii. vyañjana (consonants)
  - a) sparśa (stop)
  - b) antahstha (semivowels)
  - c) usma (aspirant)
  - d) anusvāra (the nasal sound preceding a vowel)
  - e) jihvāmūlīva (the visarga pronounced before 'k' and 'kh' when uttered from the root of the tongue)

- f) upadhmānīya (the visarga pronounced before 'p' and 'ph' when one has to blow or breath upon
- g) nāsikya (a particular nasal sound related to the so called yamas)
- h) anunāsikya (a nasal sound uttered through the nose)
- i) ranga (the nasal modification of a vowel)
- j) yama (the consonant interposed and generally understood but not written in practice, between a nasal and a consonant immediately preceded by one of the four other consonants in each class. e.g., kum, khum, gum, ghum)

## IV.1.(ii) Enumeration of Sandhis

Certain śikṣās predominantly deal with various types of sandhi. The keśavīśikṣā, keśavakṛtapadyātmikā śikṣā and prātiśākhyapradīpa śiksā are of such category. Detailed enumeration of svarasandhi, vyañjana sandhi and visargasandhi is to be found in the prāti śākhyapradīpa śikṣā which has much similarity with keśavīśiksā and the versified keśavīśiksā. For example, the takāra becomes lakāra when followed by lakāra as in 'āsīllokam', 'paricillokam' etc. so also the anunāsika becomes lakāra when followed by 'nakāra' and 'lakāra' e.g. व्रीँह्योकान्/अस्मिँह्योके trillokān, asmilloke etc.

#### IV.1.(iii) **Enumeration of accents**

Certain śikṣās predominantly center round the instruction on the accents only. For example the Svarānkuśa śikṣā has declared at the beginning thatherambaṁ caṇḍikāṁ dhyātvā śambhuṁ sūryaṁ hariṁ gurum/ sarasvatīm kavivarān vakṣe'ham svaranirnayam//

Concentrating on Heramba, Candikā, Śambhu, Sūrya, Hari, the preceptor, Sarasvati and the famous poets, I shall speak on the determination of accent.

Accordingly it deals with the udātta, anudātta, svarita and pracaya accents. Pracaya (is the accumulated accent occurring in a series of unaccented syllables following a svarita-circumflex). The particulars about kampitasvara, jātyasvara, abhinihitasvara, kṣaiprasvara, praślistasvara are also enumerated here basing upon different types of sandhis. Jātya is the name of the svarita accent resulting in a fixed word from an udātta originally belonging to a preceding 'i' or 'u'. Kampitasvara causes to tremble or vibrate the tone while uttering the vowel. abhinihitasvara is the accent of the sandhi between the final 'e' and 'o' with the initial 'a' suppressed. Praślista is the sandhi of  $a/\bar{a}$  with  $a/\bar{a}$ ,  $i/\bar{I}$  with  $i/\bar{I}$ ,  $u/\bar{u}$  with  $u/\bar{u}$ ,  $r/\bar{I}$  with  $r/\bar{I}$ , the result being the long form of the same volwel as  $\bar{a}/\bar{\imath}/\bar{u}/r$ .

## IV.1.(iv) Enumeration of virāmas

In the RV, the virāmas are determined by the ardharca (half of a rk stanza) but as the YV contains prose portions, the virāmas or the ends of the lines are to be indicated. The numbers of all the virāmas have been mentioned in certain śikṣā texts. Avasānanir ṇaya śikṣā is of such type which declares at the outset that:-

avasānam tu vakṣāmi yathāvadanupūrvaśah //2// or the closing mark shall rightly say in due order.

In this śikṣā, in the yajuṣ where the closing marks or virāmas are to be done, have been instructed. The word avasāna has the same meaning as virāma. The numbers of all the virāmas are also compiled here as follows:-

sarvāņy avasānāni ekīkņtya ekonavi msati satāni pañca saptati h samkhyā- By uniting all the closing marks, the number will be nineteen hundred and seventy-five(1975).

# IV.1.(v) Repetition of Rk. mantras in the YV

Some śikṣās enumerate mainly the repetition of "rks" in YV. The repeated "rks" which are generally seen in each chapter of Yajurveda are called "galitā".-

yathā atra śikṣāyam ca etadeva pariganitam yad yajurvedasamhitāyām pratyadhyāyam kiyatyah kśāca rco galitā arthāt atikramaviṣayabhūtāh keṣu keṣu ca adhyāyeṣu galitāyā ṭco'bhāva iti vivecitam//

For instance, in this  $\dot{s}iks\bar{a}$  it has been calculated that some unimportant rks have been dropped, i.e they have been treated as excessive. Therefore it is discriminated that in certain chapters there is the absence of the dropped rks.

As the name suggests the *Galadīksikṣā* enumerates the *rk mantras* which are found in YV. In this śikṣā the main subject is the enumeration of how many rk mantras are found mentioned in each chapter of YV and in which chapters of YV such rks are not to be found. When the mantras of RV come for the first time in YV, they are to be uttered completely. But when the same mantra occurs for the second time, then only the pratika

or the first two/three words of that mantra are to be uttered followed by the next mantra. Such order is enjoined in Vāj.Prā as samhitāyām etc. This  $\pm ik \pm \bar{a}$  is significant for the retention of  $\pm ik \pm ik$  as well as the knowledge about how many rks are enumerated in Yajurveda.

## IV.1.(vi) Placement of udātta accent in the word

Sikṣās deal with enumeration of words having udātta accent in the beginning or middle or at the end. It is interesting to note that certain śikṣās record the words which are found in ŚYV having udātta accent as per their placement on the words. The manahsvāra śikṣā records the Yajusmantras which have udātta accent on their first letter, the word having udātta accent on the middle letter and also the word having udātta accent on the last letter. Thus this śiksā text forms an aid for the purity of the accent of the vedic texts.

So also the word having na as it's ending letter and ta as its ending letter and the avasānas or virāmas in the Yajusmantras are also found mention in the mana hsvāra śiksā like the avas ānanir naya śiksā.

In the Yajurvedasamhitā, there are some rks composed by three feet and some by four feet. In this mana hsvāra śikṣā it is ascertained, how many rks are there and how are they like. Besides, the number of full stops has also been ascertained.

## IV.1.(vii) Enumeration of kramas

The kramasandhānaśikṣā and the kramakārikāśikṣā enjoin the rules about the order or krama relating to avasānas. The first verse of kramasandhānaśiksā statesyathā samāmnātam kramāvasānam sankramesu / kramaśāstrānusārena sandhānaṁ procyate'dhunā //

In the meeting of two words in krama texts, as the end of a word in the kramapātha has been repeated, therefore now according to the treatise dealing with the kramapātha, the act of joining the word together is being spoken.

Thus as per this śikṣā in the samhitāpāṭha, where there are avasānas in the mantras, these avasānas are to be done as per a particular order. But in certain places though there is avasāna in the samhitāpātha it becomes conjoined with the next word in the kramapātha. In the samhitāpātha, the avasānas come at the ardharca. But in kramapātha the last word of the first half of a rk becomes conjoined with the first word of the next hemistich. Those cases are enumerated in this śikṣā. The kramakārikā śikṣā records the same at the outset as-

> sarvayājuṣamantrāṇām vede vājasaneyake / kramāvasānavisayām kārikāmārabhāmahe //2//

In the Vājasaneya samhitā i.e in the white Yajurveda, we now begin the  $k\bar{a}rik\bar{a}$  (concise statement in verse) dealing with the need of a word in the krama text of all the Yajus mantras.

#### IV.1.(viii) Enumeration of svarabhakti

Some śikṣās give stress upon the enumeration of svarabhakti. For example, the svarabhaktilakṣaṇa pariśiṣṭaśikṣā enumerates five kinds of svarabhakti along with their examples as followssvarabhaktiḥ pañcadhā syāt tatrādyā karinī smṛtā / rakārasya hakarena samyogo yatra jāyate karinī sā tu vij nevā barhirasīti dar sanam // verse-36

svarabhakti is vowel separation. It is a vowel sound phonetically inserted between r or l and a following consonant (e.g. 'darśana' being equal to daraśana). Svarabhakti is of five kinds among them the first one is called 'karini'. It takes place where there is combination of 'r' with 'h'. e.g. barhirasi (r+h)

The second one is called kurvinī where there is combination of 'l' with 'h' e.g. 'upavalha' (l+h)

lakārasya hakārena samyogo yatra jāyate /

kurviņī sā hi vij neyā upavalheti pašyati //

verse-37 of svarabhakti laksanapariśista śiksā rakārasya śakāreṇa saṁyogo yatra dṛśyate / harinī sā tu vij ñeyā'r śasa' ityādi dar śanam // Ibid, verse-38

The third one is called harini where there is a combination of 'r' with palatal ' $\dot{s}$ '.eg. ar $\dot{s}$ asa  $(r+\dot{s})$ .

lakārasya śakarena samyogo yatra jāyate / taṁ harinīṁ vijānīyāt śatavalśeti darśanam // Ibid, verse-39

The fourth one is called harini or hāritā (Yāj. Śik-101) where there is a combination of "l" with palatal ' $\dot{s}$ ' e.g. sataval $\dot{s}a$  ( $l+\dot{s}$ )

rephasyātha sakareņa samyogo yatra dṛśyate / hamsapadeti vij ñeyā varşo varşīyasīti ca // Ibid, verse-40

The fifth one is called  $hamsap\bar{a}d\bar{a}$  where there is a combination of 'r' with cerebral 's' e.g. varsah and varsayasi (r+s)

etat lakṣaṇamākhyātaṁ svarabhaktervicakṣanaiḥ / Ibid

The experts have spoken of this definition of svarabhakti. Thus the last six verses of the svarabhaktilakṣaṇa śikṣā explain the rules of svarabhakti which are evidently the reproductions from the yaj ñavalkyaśiksā (verses 98-104). Vāj Prāt IV.7 and Atharva Prāt. 1-102 maintain that the fricative before which svarabhakti occurs is not followed by a cansonant but is followed by a vowel. Thus in the word  $p\bar{a}r\dot{s}vatah$ , though there is the conjunction of  $r+\dot{s}$  but as '  $\dot{s}$  ' is followed by 'v' which is a cansonant and the svarabhakti does not occur.

#### Comparative Analysis of SYV śikṣās IV.2.0

A comparative analysis of ŚYV śikṣās is furnished below:-

- (i) Varnaratna pradīpa śikṣā is older than Prātiśākhya pradīpa śiksā.
- Though Amar the author of var naratna pradīpa śikṣā has (ii) followed the general rules of Prātiśākhya yet he has arranged the rules in his own order. He did not follow the order of Prātiśākhya although it mostly defines the sūtras of Prātiśākhya section by section with illustration.
- Varnaratna pradīpa śikṣā states that the recitation of vedic (iii) texts precedes and clarifies the understanding of accentuation and euphonic combination. But Prātiśākhya pradīpa śikṣā defines the method of studying Vedic texts and persons unfit to study the Vedas without the prior knowledge of the rules of śikṣā.

- (IV) Varnaratna pradīpa śikṣā deals with the enumeration of letter explanation of technical terms such as jit, dhi, ut, kanthya, sim, bhāvi and upadhā. But Prātiśākhya pradīpa śiksā deals with rules of vowel-combination, consonant combination, visarga combination and cerebralisation of s and n.
- Varnaratna pradīpa śikṣā mainly specifies anu and (V) paramānu including hrasva, dīrgha and pluta, but Prātiśākhya pradīpa śiksā deals mainly with acute, grave and circumflex accent.
- (VI) Pracaya accent plays a special role in Prātiśākhya pradīpa śikṣā, but in Varṇaratna pradīpa śikṣā, sthāna, karana and prayatna are clearly explained.
- Varnaratna pradīpa śikṣā informs us rules of syllabic (VII) division (pūrvānga, parānga carcā) but Prātiśākhya pradīpa śikṣā gives the description of eight vikṛtipāthas (fictitious recitations such as jatā, mālā, śikhā, rekhā, dhvaja, danda, ratha, and ghana and it also gives detailed description regarding the pronunciation of 'r', 'y', 'v' and 's'.
- Varnaratna pradīpa śikṣā estimates the relative strength (VIII) of vowels but Prātiśākhya pradīpa śiksā deals with the vowel lengthening.
- (IX) Rules of euphonic combination like *lopa*, āgama, vikāra and prakṛtibhāva play a predominant role in Varṇaratna pradīpa śikṣā. But Prātiśākhya pradīpa śikṣā gives more stress on different manual gestures. It provides more

information about avagraha, samkrama, krama text, krama samdhāna and svarabhakti.

- (X)svarabhaktilakṣaṇa pariśiṣṭaśikṣā is ascribed to Kātyāyana. It mainly describes different kinds of svarabhakti in the last six verses and these are evidently the reproductions from Yāj fīyavalkya śikṣā. Prāti śākhya pradīpa śikṣā deals with one section in svarabhakti whereas Varnaratna pradīpa śikṣā deals with some euphonic combination and its classification, specially discussing the syllabication of svarabhakti.
- Krama samdhānas have been collected in the samkramas. (XI) Samkrama is defined as combination of re-occuring words with the non-recurring words. But in svarabhaktilaksana pariśistaśiksā, the uses of pratyāharas are mainly found but kramapātha denotes the joint recitation of the two words.
- (IIX) There are mainly 1975 repeated rks in the VSM. Galadrk śiksā mainly concentrates on repeated rks but there are altogether 115 kramasandhānas seen in VSM. Kramasandhānaśikṣā discusses about those sandhānas. Galadrk śikṣā is very significant from the point of view of text representation.
- (XIII) Manahsvāra gives sufficient stress on svara but other aspects like vala, mātrā, sāma and santāna are not dealt upon. But Mallaśarma śikṣā mainly deals with the manual gestures for accents. It plays a very specific role like Yāj. śikṣā for dealing with the vast subject so elaborately like general rules, mūlasthāna catus-svaragati, egressing of fingers, definition

of anunāsika, treatment of kṣaipra etc. But svarānkuśa śikṣā is a small treatise containing only 25 verses, a minor treatise defining the rules of accentuation and of euphonic combination. Regarding, the authorship of the work of svarānkuṣa śikṣā, it is confusing whether he was Rāvaņa or Jayanta.

- (VIX) So da sa ślokī śiksā is different from other Yajurvedic śiksās as elementary division of alphabet their characteristics etc are clearly described in it. Enumeration of alphabets as described in Śodasaślokī śiksā is more detail than other śiksās.
- Anantadeva in Avasānanir nayaśikṣā describes 9 types of (XV) fullstops or "avasāna" in this śikṣā. Total 1975 "avasānas" are mentioned in this avasānanir naya śiksā. In kramapātha it is prescribed here that anusvāra preceded by a short vowel should be treated as long provided it is not followed by the visarga.
- Kramakarikā śiksā depicts different types of kramāvasānas (XVI) of VSM. It differs from Vāśisthi śikṣā as it does not deal with phonetics proper and it differentiates the rk and the Yajus portions in each chapter of the white Yajurveda.
- (XVII) Kātyāyanī śikṣā describes the characteristics of the circumflex accent.

There is a metrical version of Vāj.Prāt. Māndavi śikṣā enumerates how it prevents the confusion between "b" and "v" which is very predominant in the eastern zone. In comparison to ke śavī śikṣā, kātyāyanī and māndavi play a significant role in white Yajurvedic śikṣās. As keśavī śikṣā is known as navāṅka sūtra it mainly follows the pratijñā sūtra.

The Vāśiṣṭhi śikṣā belonging to Vājasaneyī saṁhitā is completely different from the Vāśiṣthi śikṣā belonging to the Taittirīya samhitā. The former deals with the difference of *tk* and *Yajus* portion. It has nothing left with phonetic proper where as later deals exclusively with phonetic matter.

There are certain general characteristics that are found in the śikṣā treatises. For example general classification and pronunciation of letters, mode of reciting and accentuating the Vedic text, method of learning the Veda, person worthy of studying the Veda, different manual gestures while uttering Vedic mantras etc have been enumerated in the śikṣā text along with some specific topics peculiar to the specific śikṣās.

### IV.3.0 Specific pecularities in ŚYV śiksās

Among the existing available śiksā texts, the maximum number of śiksās is related to ŚYV. In all these śiksā texts some specific unique principles relating to the pronunciation are to be found which are not found in other śikṣā texts relating to other Vedic recensions or whatever rules of phonetics are found they are completely different. This itself is a very interesting and significant point to note.

Some significant rules relating to utterance of alphabets as found in the śikṣā texts if ŚYV are as follows:-

- The varities in the pronunciation of 'r'i)
- The pronunciation of *anusvāra* as short or long. ii)
- The Pronunciation of visarga as ha iii)
- The Pronunciation of 'y' as 'j' in certain specific cases iv)
- The pronunciation of cerebral a murdhanya 'sa' as 'kha' v)

### IV.3.(i) The varieties in the pronunciation of $(\pi)$ 'r'

There is great difference among the śiksākāras as to the pronunciation of the vowel r as 'ri', 'ru' or 're'. This difference is due to the varieties of recensions and also due to the impact of geographical regions.

In the Mādhyandina recension of SYV the  $(\pi)$  'r' is pronunced as 're'. The śiksā texts have clearly mentioned that:-

halyutāyutasyoh saikārāśca // (Keśavī śiksā sūtra-8)

Which means at the end of the pada or at the middle of the pada joined with the cansonant or devoid of consonant (素) 'r' is to be utterted as 're'. In support of this principle the Daivajña keśava has quoted the second and third chapter of SYV as-

```
krsno'si.....kresno'si / (II.1)
pitrmate.....pitremate /
```

In the versified śikṣā of keśava, this principle is expressed in different words only as follows:

In the end of a word 'r' should be pronounced as 're' in the Mādhyandina samhitā e.g. 'krsno'si' should be pronounced as 'kresno'si'. 'pitimate' should be pitremate, rttviya should be 'rettviya'. When 's' is preceded by 'y' and 'v' it should not be doubled. (when 'r' is joined or not joined with a consonant in the end of a word, it should be pronounced with 'e'. For 'I' instead of 'r' the same rule is applicable.

> rkārasya ca samyuktāsamyuktasyāpi sarvatah / saikāroccarānam kuryāl kārasya tathā bhavet // kārikā-11

This fact is also stated in the Laghumādhyandinīya śiksā and three examples have been adduced in support of this as:-

hṛde>hrede, mṛgaḥ>mregaḥ, rcaṁvvācam>recaṁvācam etc. rkāraḥ khalu sarvatra hyekārasadrśo bhavet / hṛde mṛgastṛtīyā ca ṛcaṁ vvācamathāparam // (kārikā-28)

Besides this in the svarabhaktilaksana pariśistaśiksā, also this speciality of pronunciation has been noted with examples as follows:-

uşmordhvarephasyoccāraḥ saikāro halyuto na cet / pitṛṛṇāmiha pitreṇāmityādi ca nidarśanam // (kārikā-18)

If not combined with a consonant, the repha (r sound) riding an ūṣman (the three sibiliants, ha, upadhmānīya, jihvāmūlīya, anusvāra and visarga) should be uttered with 'e' e.g. pitrnāmiha becomes pitre <u>nā</u>miha.

## IV.3.(ii) The pronunciation of anusvāra as, short or long

The speciality of pronunciation of *anusvāra* is much more vividly treated in many śiksās of ŚYV. The generally accepted view is that anusvāra is uttered as 'gum' and also a special sign Vis ascribed to it and the śikṣās of ŚYV vary as per the form of this sign.

Laghumādhyandinīya śikṣā very clearly and exhaustively throws light on this as:-

anusvāro yatra kutra &kāro bhavati dhruvam / hrasva dīrgho gurśceti trividhah parikīrtitah // hrasvāt paro bhaved dīrgho ha\sasiti dar\sanam /

```
dīrghāt paro bhavet hrasvo māYsebhya iti darśanam //
gurau pare hyanusvāro gurureva hi sa smṛtaḥ /
siYhyasīti tatra tāvadīkāre dīrgha'eva saḥ /
devānā \(\frac{d}{h}\)rdaye tadvat taskarānām tathā sṛke // (kārikā-12-15)
```

The anusvāra after a short vowel becomes long e.g. 'ha\sis a' (swan) and that after a long vowel becomes short e.g. mā \( \frac{1}{2} \) sebhya\( \hat{h} \). The anusvāra after a long vowel (either by nature or position) is considered as long when followed by re.g. 'devānā Yhrdaye and taskarā nā Ysrke' (in the heart of the gods and in the arrow of the thieves). So also in si Thyasi (you are a lioness) as the conjunct hya occurs after the anusvāra, it is to be uttered as guru or long. It may be pointed out that the sign for hrasva anusvāra is & and dīrgha anusvāra is ♥ as per the laghumādhyandinīśikṣā.

In this context in his śikṣā text Daivajña keśava has explained the word 'guru' and he suggests 'guru' as the conjoint alphabet.' He has not given any exposition as to the position of anusvāra preceded by 'r'. But rest of the different positions have been highlighted by him as follows:-

anusvārasya ūm śargala rephe ca pare / hrasvād dīrgho dīrghādhrasva sayyoge guruśca // (kārikā-5)

anusvāra becomes long when followed by śal (śa ṣa sa and ha) and repha, the r sound. It is pronounced long  $(\mathfrak{V})$  after a short vowel and short after a long vowel. It is long in combination with a vowel. For example-

### 1. triðáat dhāmeti

| 2. | sarv | va&s | aditi |
|----|------|------|-------|
|    |      |      |       |

| J. DHUYASAOSURIHADAHH = 11.2.1 | 3. bhū | iyāsa&sugrhapatih | _ | II.27 |
|--------------------------------|--------|-------------------|---|-------|
|--------------------------------|--------|-------------------|---|-------|

### After long vawel:-

| 6. prthivyā V satena pā saih - I | .2 | 5 | i |
|----------------------------------|----|---|---|
|----------------------------------|----|---|---|

The versified śiksā of keśava also notes the same aspect as follows:-

anusvārsya & kāra ādeśaśchandasi smṛtaḥ // (kārikā-15) uşmarepheşu paratastasya traividhyamucyate / hrasvāddīrghad dīrghahrasvo gurau ca paratoḥ guruḥ //(kārikā-16) ṛkārapara ūṣmāntye dīrghāddīrgho'pi jāyate / parasavarne hyanusvārasyesat prakstirucyate //17

The anusvāra is said to be threefold when it is followed by the ūṣma (the sibiliants etc.) and the repha ('r' sound). When either of the ūsma or repha becomes long, then the anusvāra becomes short, and long when either of them becomes short and when that preceding letter becomes heavy. When the anusvāra occupying the ultimate position of an  $\bar{u}$ sma, succeeds the  $rk\bar{a}ra$ , then the anusv $\bar{a}ra$  becomes long accordingly as the preceding letter becomes. When the anusvāra is preceded by a homo-organic letter, the original form of praktti is known to a small extent.

aņumātramanusvāro hyuttamam cāņumātrakam / (kārikā-18)

anusvāra is of the size of an atom and this size is described as the best. The position of anusvāra and relative pronunciations are also hinted upon in the svarabhaktilakṣaṇa pariśiṣṭaśikṣā in the same way but in a different words only as follows:-

"śasase ca kakhapaphe visargāh santi yatra ca" / (kārikā-18)

In the letters śa, sa and sa and in ka-kha and pa-pha the visargas are found. The visarga following ka and kha is called jīhvāmūlīya (produced from the root of the tongue) and the visarga following pa and pha is called upadhmānīya (produced by the act of blowing). The svarabhaktilaksana pariśistaśiksā also states that:-

> gūm(Y)kārah syād anusvārasthāne śali ca re pare / hrasvāddīrgho bhaveddīrghādhrasvo gururatho mataḥ // 19 säyyoge parato ha(Y)sa ityādi nidarśanam / ta(Y)saviturityādi da(Y)ṣṭretyādikaṁ tathā // 20

hrasva-dīrgha-guruccāraḥ kartavyo'tra yathākramam / śalrephayorabhāvena si(Y)hī pratyudāhīti h // 21

When the  $\dot{s}al$  ( $\dot{s}a$   $\dot{s}a$   $\dot{s}a$  and  $\dot{h}a$ ) and the repha (ra) follow in the place of anusvāra, there should be (long) gūm. The anusvāra becomes short after a long vowel and long after a short vowel. It also becomes heavy after a light vowel etc. When the anusvāra is combined with the śal or repha in post-position, then it becomes long e.g. ha(ੴ)saḥ, (swan) tā(Y)savituḥ (the anusvāra becomes short as it follows a long vowel) and  $da(\forall)$  strā (the jaw). The anusvāra becomes long as it follows a short vowel. Herein the short, long and the heavy pronunciation should be observed in due succession. In spite of the absence of śal (śa sa sa and ha) and repha (ra) coming afterwords, the anusvāra becomes long according to the rule cited below by Mallaśarma e.g. si( y) hi (lioness). Here anusvāra is noted as (੯). The Mallaśarma śikṣā also refers this 25050 anusvāra as (ऺॖ). Thus it says:-

atha &kāra samj ña-hereafter the definition of gūm comes hrasvāt agre bhavet dīrgho dīrghāt agre bhavet laguḥ / devānām hrdayam tyaktvā & syādeva dvilake pare // 26 dīrghe tu deśinī tyājyā ksiprath syāt dvilake laghau / mantre tridhā vidhir jñeyo brāhmaņe tu dvidhā smṛtaḥ // 27

The long should become ahead of the short, and the light should become ahead after the long. Giving up (devānām hṛdayam), when the dvilaka (the guru, laghu and hrasva anusvāra) comes afterwards, the gum should be pronounced. But in the long, the index finger should be given up when the dvilaka is light. Then (kṣipra) (the thumb finger should be bent at its tip and pressed on the back of the index finger).

In the mantra, the rule should be known to be threefold and in the Brāhmaṇa, it is mentioned that the rule is twofold. (kātyāyana's pratij ñās ūtra).

A completely different opinion is to be found in the Yāj flavalkya śikṣā where anusvāra is pronunced as short when followed by a conjunct. Thus it is said:-

hrasvādagre bhaveddīrgho dīrghādagre bhavedlaghuh / samyoge ca pare hrasvaḥ si(Y)hyasi nidarśanam // 63

The anusvāra should become long if it is ahead of the short, and if it is ahead of the long, then it should become light. With regard to subsequent conjuction, i.e. if it is followed by a conjunct, then it becomes short eg. ' $si(\mathcal{C})hyasi$ '.

Along with this the Yāj. śik. has ascribed the one mora or two moras respectively in order to express the short anusvāra and long anusvāra.

anusvāro dvimātrah syāt įvarņe vyañjanodaye / hrasvo vā yadi vā dīrgho devānā(Y)hrdaye tathā // 65

When the letter 'r' is joined with a consonant following the anusvāra, then the anusvāra has two moras, irrespective of being long or short eg. 'devanā(건) hṛdaye'.

Such type of injunction has also been laid down by Amaresa in varnaratnapradīpikā śikṣā.

### Pronunciation of visarga as 'ha' **IV.3.(iii)**

Visarga is to be pronunced as ha. Laghumādhyandiniya śikṣā

has given stress upon this speciality of pronunciation of SYV.

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hakāro naiva mantavya iti śāstravyavasthitih /
phaniniśvāsasadrso visargo bhavati dhruvam // 22
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Which means though pronunced as 'ha' still visarga is not to be regarded as 'ha' itself. The visarga pronounced as ha should not be treated as hakāra. Such is the distinction made by the scripture. The visarga resembles certainly the sigh of the serpent. This pronunciation respectively becomes-

- hakārah-----devovah-savitā (i)
- hikārah----devī-stisro (ii)
- (iii) hukārah-----ākhu-stepaśuh
- hekārah----agneh (iv)
- (v) hokārah----vāhoh

Thus says the Laghumādhyandinīya śikṣā:-

```
kanthyosthyastu tathaukārādvisargo bhavati dhruvam /
devo vah savitā cātra hakārasadīso bhavet // (kārikā-18)
```

The visarga after aukāra is certainly glottal and labial (produced simultaneously from the glottis and the lip). In 'devo vah savitā' the visarga after akāra should be pronounced like ha.

```
devīstisro visargastu hikārasadṛśo bhavet /
  ākhuste paśurityādau hukārasadrśo bhavet // (kārikā-19)
```

The visarga in the word 'devīh' should be pronounced as 'hi' and that in 'paśuh' etc. should be pronounced as 'hu'. ( $dev\bar{i}h$  tisrah = three goddesses, and  $\bar{a}khuste\ pa\acute{s}uh$  = the rat is your animal)

visargascāgnerityādau hekārasadrśo bhavet / visargo bāhvyorityādau hokāra sadršo bhavet // (kārikā-20)

The visarga in 'agneh' etc. should be uttered like 'he' and the same in 'bahvyoh' etc should be uttered like 'ho'.

atha svair dīkṣairityādau hikāra sadīso bhavet / visargo dyauspitetyādau hukārasadrśo bhavet // (kārikā-21)

The visarga in 'svaih drksaih' etc should be uttered as 'hi' and the same in 'dyauh pita' etc. should be uttered as 'hu'.

From all the above examples this becomes clear that, the śiksākāra has distinctily demarcated the specific pronunciation of visarga like a vowel but not as a consonant. The other śikṣās are not so explict about visarga.

# IV.3.(iv) 'ya'(য) as pronounced as 'ja' (জ) under some specific conditions

The utterance of 'ya' (य) as 'ja' (ज) is an unique speciality of SYVbut in writing 'ya' (य) remains as 'ya'(य) only. The 'ya' is pronounced as 'ja' under some specific conditions. It may be said that when there is a slash mark at the middle of 'ya' 'य' there it is to be uttered as 'ja', varnaratnapradīpikā śiksā gives details of such speciality of pronunciation as follows:-

pādādau ca padādau ca sayyogāvagrahesu ca / ja śabda iti vijñyeyo yonyah sa ya iti smṛtah // 204

The 'va' sound should be known as 'ja' at the beginning of a

 $p\bar{a}da$  (the fourth part of a verse), at the beginning of a pada (word), in a conjuction (letter conjucted with a consonant) and in avagraha (separation of the component parts of the Vedre compound). The 'ya' other than such is to be pronounced as ya. For example:-

- 1) yuktena manasāvayam / 11/2;31 -at the beginning of a pāda
- tat tvā yāmi brāhmaānm / 18/49 -at the beginning of a pāda 2)
- 3) anukāśena bāhyah-ya conjucted with 'h'(in conjuction)
- 4) yoge yoge-In avagraha (occurring in the pada text of the Veda) yuktena manasā tadvat tathā yāmi tathāparam / anukāśena bāhyaṁ ca yoge yoge nidarśanam //

The purport is that at the beginning of a pāda, and of a pada, at the conjuction of consonants or after the avagraha ya is pronounced as ja. In other cases ya is to be uttered as ya.

Yāj. śik. also states this without giving the example as follows:pādādau ca padādau ca samyyogāvagāhesu ca / ja śabda iti vijñyeyo yo'ntyah sa ya iti smṛtah // (verse-250)

At the beginning of a pāda and of a pada, in conjuction and in separation of a component parts of a Vedic compund, the 'ya' should be uttered as 'ja'. When 'ya' is the last letter of a word it should be uttered as ya and not 'ja'. The first three examples are the same except the fourth one which is 'manuṣyāh' in which last letter 'yaḥ' should be uttered as yāh (not jāḥ) (turīyamanuṣyāḥ pade)

In the "Laghumādhyandinīya śikṣā" and Keśavas padyātmikā śiksā, the 'ya' is pronounced as 'ja' only in the beginning of a pada.

Thus it states:-

```
īṣe lakṣyaṁ kṛṣṇa' ukṣā samudraḥ pratyudāhɪtih /
padādau vidyamānasya hysarinyuktasya yasya ca //
                             Laghumādhyandinīya śiksā - 2
ādeśo hi jakāraḥ syāt yuktaḥ san haraṇena tu //
yaj ñena yaj ña m vailak şya m may ūre pratyud āhrti h // Ibid-3
```

There is counter example in cases such as *īṣe*, *lakṣyaṁ*, *kṛṣṇa* and  $uk s\bar{a}$  of the rule by which the cerebral 's' is pronounced as 'kha'. The 'ya' which not being joined with any consonant remains at the beginning of a word, becomes the substituted letter 'ja' and also when it is joined with 'ha' and 'ra' e.g. yajñene yajñam, (which is the reverse of the usual). It's counter example is found in mayūra

tasmād yaj ñāt sarvahutaḥ samasmād yat tathaiva ca / rephenātha hakārena yuktasya sarvathā bhavet // Ibid-4

In 'tasmādya' and in 'samasādya' the 'y' joined with 'd' (d+y)does not become 'j'. Hence it is a counter example. But the 'y' joined with 'r' and 'h' becomes 'j' in all circumstances e.g. ' $\bar{a}rya$ ' and ' $b\bar{a}hya$ '

sūryo bāhyam tu vailaksyam śassyāya pratyudāh tih / yakārarkārayuktasya jakāraḥ sarvathā bhavet // Ibid-5 saharayyā tathā vīyuddhya copasargaparasya na / upayaj ñammānuṣāṇāmapi yantītyudāhṛtiḥ // Ibid-6

In the examples ' $s\bar{u}rya$ ' and ' $b\bar{a}hya$ ' the pronunciation of 'ya' as 'ja' is the reverse of the usual. In 'sassyāya' there is the counter example because according to the rule cited in case of śal, the ya ought to be

pronounced as 'ja'. But it is hereby prohibited. When a letter is joined with ya or 'r' (yakāra and rkāra) it becomes ja in any circumstance. The ya coming after a preposition should not be uttered as ja e.g. upayaj ña, and apiyanti.

> Similarly in *Keśava's padyātmikā śikṣā* it is stated that ādyāntasthasya joccārah padādau pathitasya' ca / upasargaparo yastu yasya chandasi nesyate // kārikā-7

The ya read at the beginning of a pada, whether it stands either at the beginning or end is uttered as ja. But when it follows a preposition, the same rule is not allowed.

Besides the above position in certain other cases also 'y'(य) is pronounced as 'ja' (অ) references of which are to be found in

- i) laghumādhyandinīya śikṣā
- ii) laghvamoghānandinī śikṣā
- sūtrātmikā keśavī śikṣā iii)
- iv) padyātmikā keśavī śikṣā
- svarabhaktilaksana pariśista śiksā v)

But in Yāj ñavalkya and in Varnaratna pradīpikā śiksā these points are not found. As per Laghumādhyandinīya śiksā when 'ya'(य) is joined with repha, hakāra and r then in Mādhyandina Yajurveda 'ya' is pronounced as 'ja'

sūrya> is pronounced as sūrja As *bāhya*> is pronounced as *bāhja* vyrddhi> is pronounced as vjrddhi

But in saspyāya as the above three positions are absent, so 'ya' is pronounced as 'ya'. In Laghvamoghanandinī śikṣā and Laghumādhyandinīya śikṣā after r, ya is not pronounced as 'ja'. In Keśavīśikṣā, the position of 'r' is instructed differently as at the beginning of a pada and at the end of a pada to determine the 'ja' sound of 'ya' padāntamadhya -ṛ- ha-rephayugyasya yaśca keśavīśikṣā² and ya joined with r, ha, and repha occurring at the end or middle of a word. But in svarabhaktilakṣaṇa pariśiṣṭa śikṣā,3 the examples are given and in padyātmikā keśavī śikṣā as well as in kātyāyanīya pratijñāsūtra, both the rules of change of 'ya' in to 'ja' in utterance are expressed together. Thus the pronunciation of 'ya' as 'ja' is a significant speciality of Mādhyandina recension and all most all the important śikṣā texts have thrown light on this aspect.

# IV.3.(v) The pronunciation of the cerebral sakāra is uttered as guttural 'kha'

In the Mādhyandinīya tradition the 'sa' is pronounced as 'kha' at the end of a word or at the middle of a word in certain specific cases. This aspect is so significant that the Laghumādhyandinīya śiksā starts his text with this as:-

> atha śikṣām pravakṣyāmi mādhyandinamataṁ yathā / ṣakārasya khakāraḥ syāt ṭukayoge tu no bhavet // īse laksyam kṛṣṇa' ukṣā samudraḥ pratyudāhṛtih / Karika-I-2

Which means now I shall explain the śikṣā according to the view of the Mādhyandina. The 'sa' must be pronounced as 'kh'. But when

<sup>1.</sup> Laghvamoghanandinī śikṣā kā - 3-4

<sup>2.</sup> Keśavakta padyātmikāśiksā - 8

<sup>3.</sup> Svarabhaktilakṣaṇa pariśiṣṭa śikṣā - 16

'sa' is in combination with 'tu' (letters belonging to the ta class) and ka, that rule is not applicable. But there is counter example in cases of *īṣe* laksya, kṛṣṇa and ukṣā- which means that in the words cited above the sa should not be uttered as kha. Thus when conjoined with the tavarga and the consonant 'ka' then 'sa' is not uttered as 'kha'. For clarification, the ācārya has given the examples as- ise 1/1, 23/35

In the versified śikṣā. Daivajña Keśava has used the expressions mūrdhanya  $usm\bar{a}$  in place of sa and further states that this rule is to be observed only in vedic sanskrit but not in classical sanskrit. In the aphoristic Keśavī śikṣā and in svarabhakti lakṣaṇapariśiṣṭa śikṣā, it is enjoined that 's' is to be uttered as 'kh' except in 'tavarga'.

tavargamantarā sasya khoccāraśchandasīritah / pratyudāharaṇam pṛṣṭo divīṣe tvā nidarśanam //

Svarabhakti lakṣaṇapariśista śiksā-17

Except in the letters belonging to the 'ta' class (i.e. ta, tha, da, dha and na) the utterence of 'sa' as 'kha' has been prescribed in the veda. Its counter example is found in the words 'prsta' and divīse wherein the 'sa' should not be pronounced as 'kha'.

While explaining this, Keśavī śikṣā has given examples from mantra portion and brāhmaṇa portion. The example of mantra portion is- ise tva where 'sa' is to be uttered as 'kha'. The example of brāhmaṇa portion is- iyam pṛthivī sarveṣām bhūtānām (this earth belongs to all beings) here also 'sa' in sarveṣām is to be uttered as 'kha'. These are the peculiarities of pronunciation as related to 'sa' as 'kha'

# **CHAPTER-V**

PRINCIPLES RELATING TO RANGA, NĀDA AND NĀSIKYA IN ŚYV ŚIKṢĀS





### CHAPTER-V

# PRINCIPLES RELATING TO RANGA, NĀDA AND NĀSIKYA IN ŚYV ŚIKSĀ

### V.1.(i) Definition and mode of pronunciation of Ranga

The ranga letter is not an extra letter in the series of letters or rather it is a special letter having the characteristic of anunāsika or it is a nasalized vowel. But in this context it is to be kept in mind that all the nasalized letters are not ranga but only that nasalized vowel which occurs after the modification of nakāra, is the raṅga. For example:- mahā indra. In this example the letter n of the word  $mah\bar{a}n$  has been modified and elided by the rules "ātaḥaṭi nityaṁ" and "lopah śākalasya" etc. and the penultimate  $\bar{a}$  is nasalized. In this case  $\bar{a}$  is to be treated as ranga thus it is stated in "Māndūkyaśikṣā":-

nakārānte pade pūrve svare ca paratah sthite/ raktavarnam vijānīyāt na graset pūrvamaksaram// verse-145 raige caiva samutpanne no graset pūrvamakṣaram / svaradīrgham prayunjīta paścānnāsikyamuccaret // Yaj, Śik. 189; Pān. Śik.; 27; Lomaśī Śik, I, 8.

In pronouncing the ranga sound one should not swallow up the preceding sound; the preceding vowel should be uttered long and then the nasal sound is to be uttered. Like anusvāra, it should not be pronounced quickly, making the preceding syllable heavy. Here the preceding syllable should be pronounced with delay.

ranga is treated as 'ardhānusvāra' because, as compared to the

long anusvāra, it is pronounced with less duration cp. Taitt. Prāt.-II, 17, 1.5.

"nasalisation should be stronger on words ending with anusvāra (Śaityāyana); it should be uniform everywhere (Kauhalīputra); it should be light on anusvāra (Bhāradvāja), when 'n' changes into 'r' a fricative, or y, (and when 'm' elides) nasalisation becomes gradually stronger". Sthavira Kaundinya cp. Rk.Prāt. 1.36, (raktasamijno'nunāsikah) xiii, 20, (rakto vacano mukhanāsikābhyām) xiv, 51 (raktaṁ hłasvaṁ drāghayanti 'ugra okaḥ)'

anusvāra resulting from the elision of 'm' has stronger nasalization than ranga (Uvata, rangāpekṣayāmalopāt jātasya anusvārasya ādhikyam) anusvāra has vocalic as well as consonantal qualities. As a vowel, it is short, long or prolated, acute, grave or circumflex. As a consonant, it is pronounced with half a mora, it is joined with other consonants and it shares the accent of the vowel on which it depends. The Rk. Prāt. uses the word 'rakta' to denote a nasal sound produced from the nose and the mouth which is slightly lengthened in pronunciation, but ranga is different from this sound. ranga is often treated as anusvāra because, it is also a post-vocal nasal sound like the latter.

## V.1.(ii) Illustration of ranga from secular speech

yathā saurāstrikā nārī takrā 21/2 ityabhibhāsate / evam rangah prayoktavyo nkāraparivarjitah // Yaj. Śik. 190, Pān. Śik. 26, Nār. Śik. ii.4.9; Mānd. Śik. (AV) 113 Sarvasammata Śik. 48, Pari, Śik. (commentary) 55.

<sup>1.</sup> anusvāro vyanjanam vā svaro vā Rk. Prāt. 105

Just as the milkmaid in Saurastra, when selling curd exclaims "takraž ½" so should ranga be pronounced without any addition of the consonantal element 'n'

### V.1.(iii) Determination of the vowel-length of ranga

dvimātro mātriko vā'pi nāsāmūlath samāśritah/ ante prayujyate raṅgaḥ pañcamaih sānunāsikah // Yaj Śik. 191

ranga consists of either two moras or one, and is articulated in the root of the nose. When ranga is pronounced with two moras, one mora is pronounced in the heart, half a mora in the nose. When it is pronounced with one mora, half of it is pronounced in the heart, onefourth in the roof of the palate and the rest one-fourth in the nose. Ranga is pronounced with two moras, when it occurs either between two vowels, or between a vowel and a following 'r' resulting from the elision of 'n'.

ranga is pronounced with one mora, when it occurs between a vowel and a consonant or between a vowel and a following fricative.

The Lomaśi Śik.² recognizes two primary divisions of 'raṅga'(1) svarapara (followed by a vowel) and (2) vyañjanapara (followed by a consonant) both resembling the colour of the pigeon (pārāvatasavarnābho). There are five anurangas each consisting of one mātrā and a half. They have Pūṣā, Mitra, Vasu and Añjanā as their presiding deities.

<sup>2.</sup> rangastu dvividho j ñeyah svaraparo vya ñjanaparah / pārāvata savar nābho vihito'k saracintakai h // (loma śī śik ṣā-verse-6)

anuranga has also been identified with anunāsika (Amogh. Śik. 42)<sup>3</sup>.

### V.1.(iv) Distinction between anusvāra and ranga

 $Krat\tilde{u}$  1<sup>1/2</sup> ranu (*SYV* xix.40) Illustrations:

 $Satr \overset{\sim}{u} 1^{1/2} \operatorname{rapa} (\acute{S}YV \text{vii.37})$ 

Paridh $\vec{i}$  1 1/2 rapa ( $\hat{S}YV \times ix.53$ ) etc.

ranga is distinct from anunāsika by its place of articulation. While anunāsika is articulated both in the mouth and in the nose, raṅga is articulated only in the nose, hence it is designated as 'sarvanāsika'. ranga may be regarded as a species of which anusvāra is the genus. That ranga possesses the qualities of anusvāra is evident from Pāṇini's enumeration of letters. According to Pān. Sik., the number of alphabetic sounds is either sixty-three or sixty-four. It is explained by some that the number sixty-four has been accounted by the addition of 'ranga' to the alphabetic sounds. This fact is further strengthened by the authoritative words of the commentator of the Śikṣā Pañjikā on Pān. Śik. which cites the two anusvāras on the authority of Audāvraji. Excluding 'ranga' the number of alphabetic sounds comes to sixty-three. Further in verse 26. (Pān. Sik), Pānini describes a second anusvāra which probably denotes the ranga sound. Hence ranga may be taken as a species of anusvāra.

nāsādutpadyate rangah kāmsyena samanihsvanah/ mṛduścaiva dvimātraḥ syāddṛṣṭimā 21/2 īḍeti nidarśanam // *Yāj. Śik.* 194

The 'ranga' vowel is produced from the nose. It has a sound like

<sup>3.</sup> pūṣā-mitra-vasuścaiva añjanāh parikīrtitāh ekārdhamātrikām sthithvā paācaite cānunāsikāh//

that of the bell metal (bronze), it has softness and is of two moras long. The following description of ranga makes it distinct from anusavāra:

- 1) ranga is produced from the nose (according to another reading, from the heart) while anusvāra is produced from the root of the teeth (dantamūlīyah. Pān. Šik.23),
- ranga is a distinctive designation for the pure nasalized vowel 2) while anusvāra, being more general and indefinite is sometimes restricted to ranga and sometimes covers both the aspects of a nasal sound.
- ranga is mrdu. (soft, devoid of voice), whereas anusvāra is 3) pronounced with voice.
- 4) ranga has two moras and anusvāra being a consonant, has half a mora. Pāri. Śik. (commentary) describes 'raṅga' as sweet like the notes of bell and deep like a tiger's roar. The Sikṣā Pātha states:-
  - "just as a pearl, overpowered with the light of sapphire, becomes blue, so the entire vowel, when nasalized, becomes a ranga"4
- ranga sounds like the bell-metal and anusvāra sounds like a lute 5) of the bottle-gourd (Pān. Śik.23)

The traditional orthographers put the number "21/2" together with the sign of hiatus after the nasalized penultimate letter. This is to indicate the vowel length and duration of ranga consisting of two moras. The number '11/2' without the sign of hiatus after the nasalization of the

<sup>4.</sup> Siddheswar Verma, Critical Studies in the Phonetic Observations of Indian Grammarians, p.150

penultimate letter, indicates the vowel-length of ranga consisting of one mora only. To put the sign of hiatus after the numeral '21/2' or '11/2' however, is optional and it has no important significance. It is interesting to note that ranga is sometimes designated as ardhānusvāra.

### V.1.(v) Comparative duration of ranga

Malla Sarmā gives a comparative account of the duration of ranga in different positions as follows:

susandheścāvasānasya sārddhadvynkena bindunā / bhangam syādatra mantrena vai rangastu bhavediti //43 mahāśabdo'tiśabdaśca yadvarnātprāk pravartate / mahārango'tirangaśca sanjñā tasyaiva niścitā //44

atha rangādīnāmuccārane pramānam- The proves in the utterance of ranga

hrasvāttu dviguņo dīrgho dīrghādekaguņah plutaḥ / plutādekaguņo rango rangādekagunādhikah //45 mahāśabdena samyukto vyañjanam cārddhamātrikam / atirango mahārangād vrddho hyekagunādhikah // Mallasarma Sik. 43-46 verses

Thus the long vowel is double the short one, the pluta is one mora longer than the long vowel; ranga is one mora longer than the pluta, 'mahāranga' (ranga preceded by the word 'mahā') is one mora longer than ranga and 'atiranga' (ranga preceded by the word 'ati') is Mallasarma. Śik. 43-46 one mora longer than *mahāra nga*.

### **Illustrations:**

- 1) maha  $2^{1/2}$  asi (ŚYV xxxiii, 39-40)
- 2) amrta 21/2 anu (SYV iv.28)
- 3) asmä 2<sup>1/2</sup> aśnotu (ŚYV iii.36)

The vowel-quantity of ranga, being greater than that of the pluta, belongs to ranga as well as the penultimate letter. Similarly, the vowel quantity of mahāranga and atiranga is at once concerned with ranga, it's penultimate letter and the hiatus between ranga and following vowel. The Amogh Sik. (45-46) does not admit the distinction between 'mahāranga' and 'atiranga'. According to it, this distinction is tentatively made with a view to determining the vowel-quantity of ranga in different positions. That is why the vedists, in actual pronunciation, do not observe this distinction and adopt a uniform mode of recitation for all these varieties.

The vowel on the penultimate letter should be slightly nasalized (literally coloured) like the colour of jewels or of China rose. Nasality should be confined only to the vowel and should not affect the penultimate letter. There should be no continuous nasalization while pronouncing raṅga.

e.g. maspacanya (SYV xxv.36) where 'mas' should be pronounced as '*māns*'.

The designation 'ranga' is sometimes applied to the entire word in which it occurs, and it may be justified since any characteristic feature pertaining to the syllable or the letter, may be, in a broad sense, also belongs to the corresponding word. For instance, when a syllable is unduly nasalized, they speak the same about the word in which the syllable occurs. This has been illustrated by the following simile.

"Just as water coloured with lac is called red water in which lac is completely dissolved, likewise the nasal colour, though confined to the vowel on the penultimate letter is apt to nasalize the whole pada in which it occurs". Then the whole pada receives the designation of ranga.

e.g. śatr 
$$\tilde{u}$$
 2<sup>1/2</sup> rapa (ŚYV vii-27) cp. Vaj. Prat. Ii. 142.

Where the final 'n' has changed into 'r' the vowel'u' being the penultimate is nasalized alone. But the word ' $\acute{s}atr\ddot{\vec{u}}$ ' is also designated as ranga. In the absence of euphonic combination between a final 'n' and a following consonant, the two should remain separated as they are. But in euphonic combination 'n' changes and becomes homorganic with the following consonant, then it is nasalized by one-fourth of a mora (*Nār. Śik.* ii.4.6).

and the penultimate vowel is nasalized (Vāj. Pārt. iv.4). The sthāna (place of articulation) of raṅga is nāsāmūla (root of the nose) and the *karana* (articulator) is *hanūmūla* (root of the jaws).

# V.1.(vi) Varieties of ranga

pañca raṅgāḥ pravartante ghātanirghātavajriṇaḥ/ ahīnah prahino jñeyo yathā a ī ū ro nidaršanam // Amogh Śik. 43. ranga is of five different kinds:

1) ghāta, 2) nirghāta, 3) vajriņah, 4) ahīna and 5) prahiņa when

followed respectively by a, i, u, r, and o. For 'ahīna' and 'prahina' some MSS use 'ahāra' and 'prahāra')

**Illustrations:** 

- 1) ghāta, dev $\tilde{2}^{1/2}$  āsādaya (ŚYV. xxii.17)
- 2) nirghāta, devā 2<sup>1/2</sup> īdesi (ŚYV. xxiii.16)
- 3) vajriņa, devā 21/2 ūtibhiḥ (ŚYV. xviii.33)
- 4) ahīna, devā 2<sup>1/2</sup> rtubhih (SYV. xvii.33)
- 5) prahiņa, amitr $\tilde{a}$  21/2 oṣatāt (ŚYV. xiii.12

### V.1.(viii) Oral gesture in the pronunciation of ranga

vyāghrī yathā haret putrān damstrābhyām na ca pīdayet/ bhītā patanabhedābhyath tadvat varṇān prayojayet//

> Yaj. Śik. 195, Mānd. Śik. 43, Pān. Šik. 25, Šodasa, Šik. 15.

As the tigress carries her cubs between two rows of teeth taking care lest they should either be dropped or bitten so should one pronounce the ranga sound lest it should be dropped or differentiated (i.e. mispronounced). Suppression of the ranga sound resembles 'n' and elision of the same, resembles 'm' atra śaithilyena nakāraśruti h pīdanenaśca makāraśrutih syāt. Therefore in pronouncing ranga, one should be aware of 'n' and 'm' sounds. Further in pronouncing 'ranga' the mouth cavity should neither be too closed nor too open (nātiviv nam nātisatīv tam āsyatī k tvā rangoccāra ņatī vidheyam).

### V.2.0 Nāda and Nāsikya

# V.2.(i) Definition

'nāda' is a nasal sound represented by a semicircle and

pronounced with a deep sound; 'nāsikya' is an ordinary nasal sound. nāda occurs with visarga and nāsikya occurs with anusvāra. nāda consists of two mātrās and 'nāsikya' of one mātrā. The same sound becomes 'nāda' or 'nāsikya' according to the position it occupies in speech. Below are given certain sounds which change from 'nāda' to 'nāsikya' or vice-versa under different circumstances.

- → The nasal consonants, followed by voiced stops are 'nāda'e.g. 'anudaha'.
- $\Rightarrow$  The nasal consonants (i.e.  $\vec{n} \ \vec{n} \ n \ n$  and m) followed by conjunct semivowels, 'h', the third and the fourth letter of each mute-series, these eight are 'nāda' (voiced) when they end with the visarjanīya.
- 'n' and 'm'- being heavy, are 'nāda', but being light are 'nāsikya'.
- → The conjunct 'n' and 'm' and 'm' ending with visarga, are also 'nāda'.
- Nasal consonants followed by nasal consonants are 'nāṣikya' pronounced with one *mātrā* (e.g. 'namasteti').
- → A pause, a hiatus and a voiceless letter--these followed by a conjunct consonant, are 'nāsikya'.
- → A voiceless plosive, a nasal consonant, and a vowel, (these three at the end of a sentence), a conjunct letter at the end of a word and a short vowel at the end of a word--these five are 'nāsikya'.
- → One should employ 'nāsikya' in hiatus, pause, hemistich, stanza, word and foot (pāda).

<sup>5.</sup> Pārā, Śik, verses 39-56; Amogha. Śik, verses 30-40; Lomasi. Śik. V

- → 'h' joined with 'r' is 'nāda' under all circumstances except when it is pressed by the following word.
- → When 'h' stands between two 'm's, both are 'nāda', idamahama (VSM 1.5),
- ⇒ 'n' and 'm' (whether short or long) changing into anusvāra, are 'nāsikya', but changing into semivowels, are nāda.
- ⇒ 'h' preceded by 'n' or 'm', is 'nāda'.
- ⇒ 'n' or 'm' followed by a voiceless plosive, is 'nāda'.
- 'n' being intervocalic; aprkta; joined with r and followed by the visarjanīya preceding a voiceless plosive, is 'nāsikya' e.g. nrth. pāhi (VSM. Xiii.52).
- → The 'm' preceded by a word ending with 'o' is 'nāda' e,g kraviso maksikā (VSM.Xxv.32)
- → 'y' in hiatus, in pause, in hemistich, in ksipra vowel, in long vowel, in conjunct consonant, and at the end of a pāda is 'nāsikya' and 'r' preceded by a word ending with 'k' is 'nāsikya' e.g dadhyannṛṣiḥ (VSM.xi-33)

## V.2.(ii) Pronunciation of *nāsikya*

It is pronounced with local friction at the velic, in other words, it is a fricative nasal or a nasal fricative. In its mode of articulation, the two processes of breath and nasality overlap either partially or wholly. This is suggested by the so-called metathesis in Prakrit languages of the type brāhmaṇa-bāmhaṇa etc.

### V.3.0 Yama letters (Faucal Plosive)

### V.3.(i) Definition of Yama

Yama literally means "twins" and in the phonetic treatises they are in the form of two stages in the articulation of the plosive. For example

- 1) rukkma
- paddma 2)
- 3) swappna

The first stage is the implosive stage of the plosive. In the second stage air passes through the nasal cavity when the contact for the articulation of the following nasal consonant is being made. The passage of air through the nasal cavity nasalizes the plosive. Thus the yamas are said to be particular nasal sounds occuring in the following group.

Plosive+nasal consonants. Yamas are the nasal sounds intervening between the plosive and the nasal consonant. In this context one question arises as to whether the yama letters belong to the preceding or the succeeding syllable. According Vāj.prāt. (I.103) the yama letters belong to the preceding syllable whereas according to *Taitt.Prāt.*(xxi.8) they belong to the succeeding syllable.

As per the opinion of Taitt. Prāt. the syllabic division of yama letters will be as follows

- paddma-pad+dma 1)
- rukkma-ruk+kma 2)
- 3) svappna-svap+pna

But as per Vāj. Prāt. the syllabic division will be as follows:

- 1) paddma-padd+ma
- 2) rukkma-rukk+ma
- 3) svappna-svapp+na

### V.3.(ii) Mode of Pronunciation

The discussion about yama letters is a significant point in the  $\dot{s}iks\bar{a}$  text as follows:

- i) Pān. Śik. 4 Yāj. Śik. 212
- ii) Nār. Śik. ii. 1.8.9 Gautami Śik. 1

śunyālaye piśāco'pi garjate na ca dṛśyate /

evam varņāḥ prayoktavyā upajjman iti darśanam //Pārā Śik. 59

Just as an imp growls in an empty house without being visible, likewise the *yama* should be sounded although not visible in orthography.

e.g. upajjman (VSM xvii.6)

### V.3.(iii) Number of yamas

"catvāro yamāḥ ku, khu, gu, ghu, iti"

(Gautami Śik, 2; Pān. Śik. 4; Yaj, Śik.212)

The enumeration of *Yamas* as four, appears to be puzzling; for, according to the definition given by the  $N\bar{a}r$ .  $\hat{S}ik$ . (ii.1.8), the number becomes twenty. Uvata in his commentary on Rk.  $Pr\bar{a}t$ . (vi.29) tries to justify both the enumerations as follows:-

The number of original *yamas* is four and that of substituted *yamas*, according to the total number of non-nasal stops, is twenty. The number 'four' however, is justified on the ground that the first mute series (i.e. *k*,

c, t, t, p, ) has 'k' as its yama, the second mute series (i.e. kh, ch, th,th, ph) has 'kh' as its yama, and so on,. In pronunciation, the yamas do not share the characteristics of their respective mute-series to any considerable extent. Hence, they are called the first, the second, the third and the fourth yamas.

The author of the ' $K\bar{\imath}rtiprak\bar{a}\dot{s}a$ ', a commentary on the  $V\bar{a}j$ .  $Pr\bar{a}$ . prescribes the pronunciation of j + j + n as j + g + m, 'g' being the yama. He justifies the pronunciation of yama 'g' saying, that in the junction J+ yama) g + n, 'g' appears as a result of the violation of sthāna and karana, almost in the same way as brass is produced by the amalgamation of zinc and copper. But the commentator of Yaj. Sik. criticizes this view. According to him, the conjunct j+n should not be pronounced as 'gya' or 'jga' or 'jya' which are definitely erroneous forms of 'jna'

It is interesting to note that yama is sometimes orthographical, without having any phonetic significance, e.g. patnya (Vāj. Prā. XXX.22) which is written as 'patknya', 'k' being the substituted yama, which the Vedic ācāryas do not pronounce. But they write it merely to indicate the yama.

It may be questioned that in 'patnya', 't' being the proper yama (Vaj. Pra. Iv. 161) why do they write 'k'? The commentator replies:"Velum' is the articulator of 'yamas' and the articulatory effort for the present yama sound with 'velum' as its articulator, produces a

<sup>6.</sup> atra jakāra-yamagakāra varņāntarotpatti h / yathā tāmratrapu samyoge kāmsyasyotpatti h // Vāj.Prā., p. 303

sound which resembles the velar 'k' and with that sub-position they are justified to write 'k' instead of 't'7

nāsāmūlena karaņena yamoccāraņe pravītto yatnah jihvāmūlīyasadṛśo, śrutimutpādayet, iti tathaiva sambhavābhiprāyeṇa likhanāt. "On Yaj. Śik. fn.3) On the number 'twenty', it is observed that:-

"yamāścatvāra eva, na punarvithśatih. atra prakttiviśe sanatayā vi mśatisamkhyānirde śaḥ na vidheya-vi śe ṣaṇatayā '(Yāj. Śik.)

Yamas are four in number and not twenty. The number '20' may be justified as 'prakrtiviśesana' (subjective adjective) and not as 'vidheyaviśe sana' (predicative adjective). So one can say 'twenty yamas' but not "yamas are twenty" and "twenty yamas" always mean that they are not originally twenty in number but they become twenty after the number of the twenty non-nasal stops. The Gautmai Śik. observes:

"There are twenty non-nasal (literally non-final) stops such as k, c, t, t, p etc. Among these, only four are 'sayamāh' viz, kum, khum, gum, and ghum"

Swami Dayānanda, in his introduction to the Varnoccāraņa Śikṣā

<sup>7.</sup> vaidikāḥ.....yamatvadyotanāya kakāram vilikhanti na punaḥ kakāram uccārayanti on Yāj. Šik.

<sup>8.</sup> athānantyā vi mśatir bhavanti te kacaṭatapāḥ khacchṭhathaphāl gajaḍadabā ghajhadhadhabhā ścetyathāntyāḥ pañca te nañaṇanamā ścetyathā nantyā ścatvāraste sayamāste kum khum gum ghum ityanantyāntyasamyogena antyapūrve'ntyottare vyavadhāna varjite tatra yamā vartante na samśaya iti //2//

criticizes the traditional view regarding 'kum, khum, gum, ghum' as four yamas. According to Dayananda 'kum, khum, gum, ghum' should not be regarded as yamas, for, if these are taken as yamas, why not cum chum jum jhum etc.?

### V.3. (iv) Yama regarded as ayogavāha sound

The Pān. Śik. (22) regards yamas as 'ayogavāha' sounds. The term 'ayogavāha' has been interpreted differently by different scholars.

### 1. Patanjali:

They are called 'ayogavāha' because they are heard though not mentioned in the Pāṇinian enumeration of the alphabet (Mahābhāsya. I.1.2.

### 2. The author of the Pañjikā:

They are called 'ayogavāha' because they are not joined with other letters (on  $P\bar{a}n$ . Sik.)

### **3.** <sup>1</sup> Uvata: (Vāj. Prā. Viii. 18)

They are called 'ayogavāha' because they attain their realization only when joined with the letters of the alphabet. The negative augment 'n' is taken by Uvata in the sense of the vowel 'a'.

### 4. The author of Va. Ra. Pra. Sik. (50-51)

reads it as 'samyogavāha'. anusvāro visargaśca nāsikyo'tha yamāstathā / jihvāmūlamupadhmā ca navaite syuh parāśrayāḥ // samyyogavāhā evaite nijasvara vivarjitāh/ pūrvasyāngam bhavantyete svara eteşu pūrvavat //

The author of the Laghu, Mādh. Sik. regards only the 5. Visarjanīya as ayogavāha.

The Nār. śik. regards the yama as the savarna of two pūrva varnas or two previous letters.

### V.3.(v) The bodiless yama

jakārau dvau makaraśca rephastadupari sthitah/ aśarīraṁ yamaṁ vidyatsammārjjmīti nidarśanam // Pārā. Śik.-Verse 58

In the junction r + j + yama + m', 'yama' is called bodiless, because it is not distinctly audible due to the contraction of nostrils

### V.3.(vi) Syllabication of Yama

Max Muller takes the yama to be a nasal sound proceeding the mute. The Nār: Śik. takes the yama to be homorganic with the preceding letter. The Taitt. Prā. (XXI.8) speaks of the yama as occurring after h and as belonging to the preceding syllable. The possibility of both of these syllabic divisions is attested by Siddhesvara Verma as he comments "Both views were phonetically possible for, by the force of regressive assimilation, which was so prominent in Sanskrit, the opening of the nasal cavity for the articulation of the succeeding nasal consonant may

<sup>9.</sup> anantyaśca bavet pūrvo antyaśca parato yadi / tatra madhye yamas tişthet savar nah p ūrvavar nayo h // Nār. Šīk. II. 1.8 agžne, tigžmena, yajj nānām, maj manā, prattnassya, The examples arestanayitthoh, nṛṣaddmā, yuddhma, appnavānavad

<sup>10.</sup> anusvāro visarga śca nāsikyo'tha yamāstathā / jihvām ūlamupadhmāca ca navaite syuḥ parāśarayāḥ // săyyogavāhā evaite nijasvaravivarjitāḥ / pūrvasyāngam bhavantyete svara ete su pūrvavat // verse 50-51

have taken place not only while the preceding plosive was being exploded but in some dialects, even before its articulation had started."11

### V.3.(vii) Prohibition of Yama

Yama is prohibited if the nasal mute is combined with either a preceding sibilant or a semivowel. Regarding the group fricative + nāsāl consonant there is some divergence of opinion. The Yaj. Sik. prohibits the nasalisation of hissing fricatives and enjoins that when a nasal consonant follows fircatives or semi vowels, the yama letters leave them just as the relations of a dead man retire after leaving his corpse in the burial ground or just as an elephant retreats at the sight of a lion:

pañacamāḥ śaṣasairyyuktā antasthairvā'pi saṁyutāh/ vamāstatra nivartante smasānādiva bā andhavāh // verse 214

In another reading the last pada is found as follows:-

si mham drstvā yathā gajah

Yama is prohibited when the nasal mutes after the fricatives or the semivowels are doubled in the letter-junction.

(i) vilmmine (VSM.xvi.35) (ii) VSM. Asmmin (iii1) etc. e.g.

### **V.3.(viii)** Yama and Nāsikya

 $N\bar{a}sikya$  is the junction between h and a nasal consonant (h+nasal). Ananta Bhatta (on Vāj. Prāt. viii. 23) regards 'nāsikya' as anunāsika. The Tribhāṣyaratna (on Taitt. Prāt. Xxi.14) regards it as a nasalization of ħ.

<sup>11.</sup> Critical Studies in the Phonetic Observations of the Indian Grammarians, p. 79

Whitney (on Ath. Prāt. I. 99-100) regards nāsikya as another yama. The Sarvasammata Sik. (42) takes it to be a nasalization of 'h'. The Cārāyaṇīya Śik. prohibits the nasalization of h; i.e. it does not admit 'nāsikya' as a separate sound. nāsikya has the same organ as it's sthāna and karana.

Yama and nāsikya have 'nose' as their 'sthāna', but their karaņa is different. The karaṇa of yama is the nāsāmūla (velum) whereas the karana of nāsikya is the nose.

# CONCLUSION & BIBLIOGRAPHY

## Conclusion

#### L The Vedas as the early source of phonetics

As observed by S. Varma, "The study of phonetics was pursued in ancient India with an interest which has few parallels in antiquity".1 The observations of the RV(X.71) is also an interesting contribution to the early history of linguistics. The well-known mantra of RV (IV.58.3) is an interesting observation of the seers on speech which according to Patañjali's interpretation is compared to a bull, the sounds of which are attributed to three organs-viz.; the lungs, the throat and the head.2 In Aitarea Brāhmana, speech is compared to the ocean on account of it's inexhaustible nature:-

vāg vai samudro na vāk ksīyate / Aitareya Brāhmana XIII.21

It also enjoins that the stotriya verses should be recited in intermediate speech, which refines the soul:-

tam madhyamayā vācā śamsatyātmānam eva tat samskarate /

Aitareya Brāhmana XII.13

The study of phonetics in India had reached a considerably advanced stage even during 800-1000 B.C. The Aśvalāyana śrauta sūtra provides the data about the pronunciation prescribed during the recitation of certain verses on the fourth day of the *navarātra* ceremony. It prescribes that a single vowel was to be repeated sixteen times in varied quantity and accent. As aptly remarked by S. Varma: - "Thus the final 'o' of apo in

<sup>1.</sup> S. Varma, Critical Studies in the Phonetic Observation of Indian Grammarians, p. 1

<sup>2.</sup> Patañjali Mahābhāṣya paspaśāhnika- tridhā baddhaḥ triṣu sthāneṣu baddha uraṣi kanthe śirasīti //

āpo revatīh kṣayathā was (1) first pronounced with a quantity of three moras and the high tone: 03; (2) then five times as a short unaccented vowel- half O or O; (3) again like (1); i.e. 03; (4) again five times like (2) i.e. O; (5) like (1), i.e. 03; (6) three times like (2), i.e. O. So the final 'o' of apo in this particular recitation was pronounced as follows: O3 ŎŎŎŎŎ Ò3 ŎŎŎŎŎ Ò3 ŎŎŎ."<sup>3</sup>

This minuteness of the details suggests that the phonetics had developed a lot in the Vedic period. Various sounds have been described in terms of different objects in nature.

## Siksā as the main source of phonetics П.

The general phonetics is to be met within the scope of śikṣā literature, śiksā implied 'general phonetics' while prātiśākhyas implied "applied phonetics". Further śikṣā lay down general principles of phonetics which were further applied by the *prāti śākhyas* to the various Vedic texts with which they are related. The śikṣās claim a number of distinct contributions to phonetics; specially the Yajurvedicśikṣās along with some specific rules relating to YV prescribe certain general conditions for correct pronunciation as sound health, calm temperament, freedom from nervousness, abstention from omission of sounds, overstress, faltering tone, consistently distinct pronunciation of the beginning and end of the speech, abstention from habits of roughness, projecting the lips, indistinct pronunciation, nasal twang, broken speech, and rigidity of the tongue, good teeth and lips. Other essentials are a clear throat, the cleaning of teeth and the throat with a twig-brush etc.

Minute details regarding the relation of the vowel and the

S. Varma, *Ibid*, p. 2

consonant, the nature of accent, the relation of accent and quantity etc. are also dealt upon by the śikṣā texts. The Yāj. śik tells that the vedic accent was musical. The seven musical notes mentioned in the science of music are exactly the three accents, *udātta* etc. in the vedas.

> gāndharvavedā ye proktāḥ sapta ṣaḍjādayaḥ svarāh / ta eva vede vij ñeyāstraya uccādayaḥ svarāḥ // ŚS., p.1

The śikṣā texts also give details of svarabhakti, the nature and quantity of anusvāra, ranga, the abhinidhāna, and the doublings. The authors of śikṣā texts were authorities on phonetics. Their minute observations on syllabication, accentuation etc. are distinct contributions to general phonetics.

Thus for the development of modern phonetics in the computer system, the knowledge about śikṣā texts is very essential. So the vedic student must go through the śikṣā literature for the correct pronunciation as well as correct appreciation of vedic texts.

#### Contribution of śiksā literature for correct vedic recitation Ш.

The seers of ancient India had maintained the svādhyāya tradition with utmost accuracy and intelligence as a result of which we are able to get the vedic texts intact. But now-a-days, vedas which are the store house of Indian wisdom and culture are only retained in certain texts in the libraries only. The vedic students know the theories of the vedic accents but not their effective application. Under such circumstances, steps must be taken to preserve, protect and sustain the ancient heritage of vedic oral tradition. As Manu has said:-

vedamevābhyasennityath yathākālamatandritah/ taṁ hyasyāhuḥ paraṁ dharmamupadharmo'nya ucyate // (Manu-IV.147)

which means, the main duty is to recite and practise vedic chantings untiringly as it is the main duty.

The reward of correct reading of veda is suggested in the AV as follows:-

> stutā mayā vardā vedamātā / pracodayantām pāvamānī dvijānām // āyuḥ prāṇaṁ prajāṁ kīrtiṁ draviṇaṁ brahmavarcasaṃ / mahyam dattvā brajata brahmalokam // (AV XIX.71.1)

The basic rules for the vedic recitations specially for the white yajurveda may be summerised here as follows:-

For the Vedic recitation one should be of humble attitude and pleasant mind and by fixing the eyes on the posture of hand (as shown in the picture: No.-1)

One should sit on a seat which is pure with a padmāsana or svastikāsana. Then he should keep his right hand on the fist of the left hand, and by arranging the fingers in the gokar nāk rti, one should chant the mantras.4



(Picture-1)

<sup>4.</sup> suprasannamanā bhūtvā vinītah svāsanam bhajet / nive śya drsti m hastāgre vedam svīyam samabhyaset // hastau susa myatau dhäryau jänunorupari sthitau / guroranumati in kuryāt paṭhamānya matir bhavet // āsanam svastikam padmam boddhorou daksine karam / savya in samu sti vinyasya mu stau daksinakārparam //Sampradāyaprabodhinīśiksā verses-6-8

During the chanting of vedamantras one should not be very quick or very slow, should be of calm disposition, one should utter the mantras with a balanced tone free from high or low pitch defects.

Before starting the mantrapātha, one should utter "harih om", which is ādyudātta, svaritānta as: hari÷|ö3m|

### IV. Hand movements during vedic recitation

In the Mādhyandina recession of ŚYV, the accent variations are indicated by hand movements. The utterance of accents like *udātta*, anudātta and svarita etc. and the hand movements should coincide with each other, because it has been stated:-

yatra yatra sthitā vāṇī pāṇīstatraiva ti sthati / hastabhraṣṭaḥ svarād bhraṣṭo na vedaphalamaśnute // Yāj.śik.-24

The hand-accent method has much significance as without such knowledge, the actual reward of vedapāṭha is not possible. Thus it is stated:-

> rco yaj ūrnsi sāmāni hastahīnāni yaḥ paṭhet / anṛco brāhmaṇastāvad yāvat svāraṁ na vindati //

Without the knowledge of svara, if one shows the hand movement while reciting the mantras then he incurs sin. Thus it is stated:-

> hastahīnam tu yo'dhīte svaravarņa-vivarjitam / rgyajuh sāmabhirdagdho viyonimadhigacchati // Yāj. śik.-40

During the utterance of *udātta* accent, the hand is to be raised up to the head, during the utterance of svarita accent the hand is to be raised up to the tip of the nose and during the utterance of anudātta accent, the

hand is to be raised up to the heart.

### Summaries of rules for vedic recitation of SYV. V.

#### 1. anusvāra has two divisions

- where there is the 'U' sign there one should know that the a) anusvāra is short and of one mora.
- If after the above sign, a conjunct letter comes, then one b) should understand that there the anusvāra is long.
- In certain places, the long anusvāra is indicated by the c) sign 'ਠੋ'

In all the above cases, the anusvāra is to be uttered as 'gum'

visarga is to be pronounced as hakāra but it is not to be 2. regarded as hakāra.

## For example:-

देवो व: / सविता visarga in vah is to be uttered as ha.

देवी: visarga in  $v\bar{i}h$  is to be uttered as  $h\bar{i}$ .

आखुस्ते पशुः visarga in śuh is to be uttered as hu.

अग्ने: visarga in gneh is to be uttered as he.

बाह्वो: visarga in hvoh is to be uttered as ho.

स्वै: visarga is to be uttered as hi.

द्यौ: visarga is to be uttered as hu.

- raiga or the half anusvāra has two varieties as: शत्रं १॥ लोकाँ २॥ 3. (In these cases short and long ranga is to be uttered as per the previous vowel.
- where there is the sign '5' between two vowels, there it is to 4.

be understood as one mora hiatus.

- where there is a stroke in the middle of 'य', it is to be understood 5. as jakāra.
- if ra comes after śa, sa, sa or ha, it is to be understood as 're' 6.
- The 'q' if not joined with ta, tha, da, dha or na is to be uttered as 7. 'ख' (kha).
- The letter 'রু' is to be pronounced as ज्ञ (ज्ञ). In Maharstra, the 8. vedapāthīns utter it as 'gnya' 'ग्रन्य'.
- The various signs prescribed for different accents are as 9. follows:

The udātta accent has no sign as in अप्रि: udātta-

svarita-The svarita accent is indicated by a vertical straight line over the letter अ as in अग्रिमीळे

The anudātta accent is indicated by a horizontal line anudāttabelow the letter अ as in अमिम्.

anusvāra (short)

anusvāra (long)

visarga before an udātta

visarga before an anudātta

svarita in the middle - Lor &

- W half nyubja or full nyubja

### 10. The hand movements as per the accents

## i) *udātta* has two principal divisions as *ūrdhvagāmi* and *vāmagāmī*

If udātta is there before the a) svarita, then the hand is to be raised.

For example- "आहमजानि" (SYV.XXIII.19)

b) If udātta comes before the svarita with *nyubja* sign and the *svarita* with the sign of a vertical line then the hand should be raised upward while uttering the *udātta*.

For example- "बृहत्युष्णिही" (\$YV.XXIII.33)

The second category of udātta has three subdivisions as



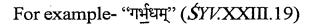
(Picture-2)

udātta coming in between two anudāttas. In this case, the hand a)

For example- "गायत्री त्रिष्टब्ज" (\$YV.XXIII.33)

is to be turned to the left of the reciter.

b) If udātta is there at the end of the mantra and after the anudātta and the next mantra starts with an anudātta letter, then the hand should move towards the left of the reciter.





(Picture-3)

If udātta is at the beginning of a mantra followed by an anudātta c) vowel, then the right hand should move towards the left as shown in the picture-3.

For example:- "य एतावेन्तश्च" (\$YV.XVI.63)

In this way there are two types of raised (ūrdhvagāmī) and three types of left turn (vāmagāmī) udātta accents.

## ii) anudātta has five varieties as follows:-

- a) nimnagāmī
- b) antyadarśī
- c) dakşagāmī
- d) tiryagdarśī
- antargāmī e)
- nimnagāmī anudātta-When a) anudātta comes first, then udātta and then svarita, the anudātta is to be known as nimnagāmī and the hand is to go downwards as shown in picture No.4.

For example:- "गुणानोन्त्वा" (ŚYV.XXIII.19)

- antyadar śī anudātta- It occurs when b) a series of anudātta are together. In this series the last anudātta letter is to be uttered with the low position of the hand as in picture No.4. For example- "बलविज्ञाय स्थविर:" (\$YV.XVII.37)
- dakṣagāmī anudātta- When accents are in the order of anudātta, udātta and anudātta then the first anudātta is to be uttered with the movement of right hand to the right side as shown in the picture. No.5.

For example- "पुड्क्त्या सुह" (\$YV.XXIII.33)



(Picture-4)



(Picture-5)

d) the antargāmī anudātta- The letter under which 'Y' or 'L' sign is given is known as madhyāvartti svara and an anudātta accent coming just before such madhyāvartti svara when uttered, the hand is to move towards the belly as shown in picture no.6.

For example- "च् व्युप्तकेशाय" (ŚYV:XVI.29)

tiryagdar śī anudātta- If the sign of e)  $nyubja(\omega)$  comes after anudātta, then the hand is to be moved towards the right in the position of offering oblations to the manes (pindadāna) as in picture no.7.

For example- "बृह्त्युष्णिहा" ( $Rudr \bar{I} 1/2$ )

## iii) Divisions of svarita

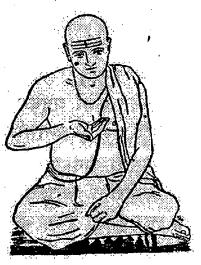
The svarita accent has the following five varieties.

- madhyapātī svaritah a)
- madhyadar śī svarita h b)
- madhyāvarti svaritah c)
- pūrņanyubjasvaritaļ d)
- ardhanyubjasvaritah e)
- madhyapātī svarita- When the sign of a) svarita is a vertical straight line above the letter, in that case the hand is to be placed at the middle in front of the heart as shown in picture no.8.

For example- "गुणानात्वा" (ŚYV.XXIII.19)



(Picture-6)



(Picture-7)



(Picture-8)

b) madhyadarśī svarita- The unmarked letters coming after svarita are known as pracaya and the handgetsure is to be shown as in svarita accent as shown in picture no.8.

For exmple- "गुणपर्ति धृहवामहे" (SYV.XXIII.19)

madhy āvartisvarita- The sign of 'L' or 'Y' if given under a letter c) in a word before which an anudātta letter is there, then it is called madhyāvartisvarita. In such cases the right hand is to be placed in front of the chest and is to turn towards inside during the utterance of the anudātta letter, which precedes and during the utterance of the madhyāvartisvarita letter, the hand is to come outside after making a full turn.

For example- "चु व्युप्तकेशाय" (ŚYV:XVI-29)

pūrņanyubjasvarita- The sign of d)  $p\bar{u}r$ ņanyubjasvarita is " $\omega$ ". If such sign is there under a letter which is preceded by letters of anudatta svara and followed by an unmarked letter which is further followed by madhyapātī svarita marked letter ' ! ', then the palm is to move downwards while uttering the *nyubja svarita* as shown in picture no.9.

For example- "बृह्त्युष्णिहा" (ŚYV.XXIII.33)

e) ardhanyubjasvarita-(sign  $\omega$ )- If the letter with ' $\omega$ ' sign comes after the anudātta letter and followed by the udātta after which an anudātta comes, then during the utterance of nyubja signed letter, the hand is to turn towards the right with the palm upwards as shown in picture no.10.

For example- "र्थ्यो न र्श्मीन्" (Rudrī 1/4)



(Picture-9)

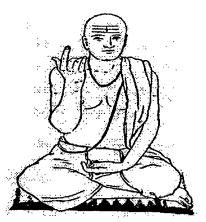


(Picture-10)

## 11. The hand gestures during the utterance of visarga

There are three signs for visarga:

If visarga is in a letter with urdhvagāmyudātta then in that case, the index finger is to be turned upside as in picture no.11. For example- "आशु: शिशानो" (*SYV*.XVII.33)



(Picture-11)

and if that visarga comes after the vāmagāmyudātta, then the hand is to be placed towards the left with the raising of the index finger as shown in picture no.12.

For example- "सहस्रोक्षः" (SYV.XXXI.1)



(Picture-12)

Where there is a horizontal line in the middle of the visarga as shown in the example, then the little finger and the index finger are to be kept straight and the middle and ring-finger are to move towards the hand as shown in picture no.13.

For example- "सूचीभि ÷ " (Rudrī 1/2)



(Picture-13) '

iii) When the middle line of *visarga* is turned downwards then the little finger is to be turned down as shown in picture no.14.

For example- "पुरेष:" (SYV.XXXI.2)



(Picture-14)

# 12. The hand-postures during the utterance of *anusvāra*

i) Where the *anusvāra* is represented through ' $\bigcup$ ' sign, there *anusvāra* is short or of one mora only. During the utterance of such *anusvāra*, the fingers are to be joined together as shown in the picture no.15.

For example- "छन्दी धृसि" (ŚYV.XXXI.7)



(Picture-15)

ii) The *anusvāra* which is marked by '&' is to be represented by stretching the index finger towards the front as shown in picture no.16.

For example- "सु भूमि है" (\$YV.XXXI.1)

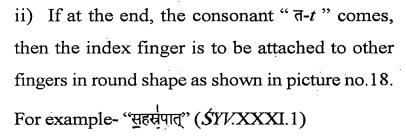


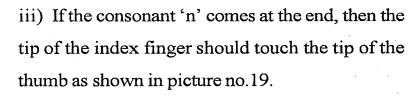
(Picture-16)

## **13.** The hand-postures during the utterance of end-consonants in a mantra or mantrārdha

If the consonants k, t,  $\dot{n}$ , p-come at the end of a half mantra or a mantra or at the end of a pada during padapātha, then they are to be represented by making the index finger low as shown in picture no.17.

For example in the padapātha- "भिषक, सम्राट्, प्राङ्, वृषण्"etc.





For example- "रश्मीन्" (Rudrī 1/4)

iv) If the consonant '4-m' comes at the end, then it is to be shown by making a fist as shown in picture no.20.

For example- "गर्भधम्" (ŚYV.XXIII.19)



(Picture-17)



(Picture-18)



(Picture-19)

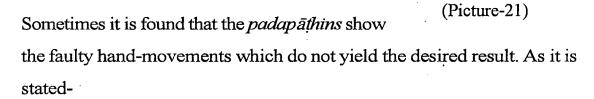


(Picture-20)

if the consonant 'p' comes at the end, then the five fingers are to be joined together as shown in picture no.21.

For example- "ककुप्" in the padapātha

## The faulty hand-postures 14.



culurnaukā sphuţo dandah svastiko muşţikākṛtiḥ / paraśurhastadosāh syustathāngulyā pradarśanam // (Sampradāya prabodhinī śikṣā -34, or Yāj. śik-38)

The followings are the faulty hand-postures-

culu cull ū- which is the ācamana posture i) as shown in the picture.



हस्तदोष: १

ii) naukā- the hand in the shape of a boat as shown in the picture.



हस्तदोष: २

iii) sphuṭa- the palm in the straight position as shown in the picture.



हस्तदोष ३ - स्फुट

iv) danda- the hand in the shape of slapping as shown in the picture.



हस्तदोष: ४ - दण्ड

v) svastika- the posture of the hand expressing abhaya or repelling fear as shown in the picture.



in

हस्तदोष: ५ - स्वस्तिक

vi) mustika- the palm contracted to the form of a fist as shown in the picture.



हस्तदोष: ६ - मुष्टिक

vii) paraśu- the articulation of fingers in the shape of a paraśu or an axe as shown in the picture.



हस्तदोष: ७

viii) tarjana- showing the accents by the index finger as shown in the picture.



हस्तदोष: ८ - तर्जन

The above eight postures are declared as faulty hand postures, the traditional hand postures.

In fact for Vedic recitations the traditional trained teachers are to be consulted. If a student with all sincerity learns the recitation from proper teachers, then through proper recitation he can realise Brahman, the Supreme Entity. Thus it may be concluded that uccāraņe vastutastu sadguruḥ śaraṇam matam.

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